

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: ori@juno.com (Ori K Mizrahi-Shalom)
Subject: [6077] "38 Special" - Freq Coverage, Pwr Supply
Message-ID: <19961209.214302.4375.2.ori@juno.com>

Hi Gang,

First, thank you all for making this project such a success.
I must appologize for the delay, we are just trying to make the final
radio a
little bit better.

There were a few questions regarding the kit:

> Just wondering... which part of the band will most people
> put their 38's on? The 20 kc swing? Or do we have a choice ?

> I'd wager that one of the submissions for next years design
> competition will be a 38-30 VFO. VFO designed just for the 38 Special.
> That will be the next project here after the 38 Special is built :)
Probably a
> low freq. VFO hetrodyned up to the appropriate range.

The kit uses a small inductor to lower the VX0 frequency. Variations
in the supplied 1N4004 "varicap" can cause a a little skew of the
frequency range, and we wanted to guarantee the kit is transmitting
in-band.

You can experiment with the VX0 circuit components to lower and expand
frequency coverage.

If your circuit turns out "typical", i.e. it tunes about 10.110-10.130,
then a
slightly bigger inductor can put you right on 10.100-10.125, this was
done!

The upper half of the band cannot be easily covered with the standard
crystals in the kit, although you could pull the 12 MHz oscillator a bit.
Of course

then you have to re-design the offset circuit...

Jim, K3QIO suggested a VFO.

Look for a circuit that covers 2.100-2.150 MHz for a full band coverage.

Initially

I planned it as a mod, but given that CW takes place mostly in the lower
25 KHz

(which the "38 Special" easily covers) I haven't put any more effort into
it.

> What are the best ways to come up with 8v. to feed the 38 Special?

The kit includes an 8V regulator in a T0-220. Any voltage from 10-15 V will work fine. 9V may also work, not sure. You could also use a 7.2V NiCad pack directly. This works fine, except when you add a final amp to the circuit, your call. We made contacts easily with a dipole and 200-300 mW (you could re-tune the output network for more power in stock form).

The TiCK keyer will be available around the same time Norcal starts shipping the kits out. It is best to plan ahead, if you install the keyer, as you'll have to add components to the board and add a momentary switch to the enclosure. I'm working closely with Gary and Brad from Embedded Research (gmdsr@vivanet.com) to ensure full-compatibility with the "38 Special". It works nicely as a keyer and we also hope to provide even a "straight key" mode with the keyer installed, without a need for a switch or a separate jack. Expect more news on this subject soon.

Other good news from Doug. Since the IRF-510 amp requires standard parts except for one toroid, the kit may include one additional toroid. Now we can really call it the "Radio Shack Amp". I can just imagine this. You are hiking in the middle of nowhere, hanging your souped-up SLV and the Rainbow tuner (in an Altoids box, of course) on the edge of a cliff, as you hang down from a rope (seen "K2"?) with a tiny G4PZY (?) paddles driving your embedded TiCK keyer in the "38 Special", just to hear:

"SRI QRM"!

ARRRR... you're ready to explode! but then... Your heart fills with joy, knowing that all you have to do is climb down and hike another measly 50 miles (isn't that what RS claims?), get the parts, build the amp, climb back again to find the fellow on the other end still there! On a "happy end" note, he gives you a 599...

TA DAH!

72

ORI AC6AN

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Mel Evans <101366.3072@compuserve.com>
Subject: [6121] \$4M down this week!
Message-ID: <961210193800_101366.3072_JHP108-1@CompuServe.COM>

Hi Dale,

Just thought you might like to worry a bit about the forthcoming winter snows. We had a storm here last weekend, lost 5 major feeds, 46,000 consumers off line for four days, one line alone over 0.5 million UKpounds to repair/replace! 600 linesmen drafted in from all over UK to help out.

Slightly hectic!

For the benefit of the rest of the group, Dale and I are both licensed up to and beyond 275 Kv High Voltage working. Helps put 0.37w power out into perspective a bit. We could all be in for a hard winter. Check your aerals (antennae) chaps, batten down the hatches, pour the golden nectar!

72 and 73 de Mel
GM6JAG
Edinburgh, Scotland UK
Home of the last HW9

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Brian Mileschosky, N5ZGT" <n5zgt@swcp.com>
Subject: [6069] 10 Meters Open!!!
Message-ID: <32ACEAF5.601C@swcp.com>

bruce muscolino wrote:

>
> There have been a number of message threads running on here lately that beg
> for a public answer. Among them are whether there should be slow speed
> contests and the reduction of W1AW code practice broadcasts.
>
> The reduction of W1AW code practices broadcasts may not have the sinister
> implications some are happy to attribute to the League's motives. It may
> simply be an issue of reduced funds. While the W1AW operation is largely

> automated, it still requires an operator be on duty while the station is on
> the air. Perhaps the League feels the cost savings realized by not having
> an operator there two mornings each week is worth the reduction in service.
> In any event, while many of you list a multitude of QRP clubs and exotic
> callsigns in your signature files, I don't very often see the ARRL listed.
> I'm reminded of Wayne Green's proclamations that he is an ARRL member simply
> so he can complain when it is necessary. How many of you can say that? If
> you're truly upset by this reduction in code practice broadcasts then join
> up and complain.
>
> Now, the hue and cry over the reduction of code practice broadcasts by W1AW
> implies that many of you listen to them. Is this true? Then why do we need
> a slow speed CW contest? Mind you I'm not against the concept -- I think it
> has valid applications. Two years ago when the League gave up on the Novice
> Round-Up I suggested to Cam that the QRP-ARCI take this contest over and run
> it as our own. He seemed to think it was a good idea then, and the rumblings
> from Newington about a new Novice contest notwithstanding, maybe we should
> take another look at this.
>
> Another somewhat unrelated point that needs airing is the propriety of
> postings and comments. I won't get into the Byran Carling/Chuck Adams
> debate -- I number them both among my personal friends, and I only know one
> side of the story. However, it seems to me that a lot of problems would be
> eliminated if we made many of our postings PRIVATE, between the sender and
> receiver, rather than airing them out to the list. By the way, PRIVATE
> means exactly what it says. When you receive an email sent to you
> personally, it is improper to quote that to the rest of the list without
> asking the author if you may. It's a lot like copyright, without written
> permission it's meant for your use ALONE.
>
> I'll put my flame suit back on now and wait for the fire department. Thanks
> for the bandwidth. You're free to delete this before, during, or after
> reading if you think I'm out of line.
>
> Your resident curmudgeon...
> --
> Bruce -- W6TOY/3
> Still QRP, Really! (c)
--

Boy Scouts of America	Amateur Radio - N5ZGT
Eagle Scout (12-6-96)	ARRL QRP: NorCal# 1700 QRP-L# 580
JASM - Troop 41	Author of Worldradio's "Youth Forum"

Column
Albuquerque, N.M. Packet: N5ZGT @ KC5IZT.ALBQ.NM.USA.NA

O.A. Lodge 66 <-W-W-W-<<

Internet: n5zgt@swcp.com

Hello Everybody,

10 meters is open right now, as of 0330 UTC! I came home from school and turned on my new AEA Handy DX 10 meter HT. I heard 2 stations from LU land, one on SSB and one on CW! Then about 4 hours later I turned it on again....wow! Lot's of stations, and several CW beacons from Texas.

What a treat! Check it out! The numbers as of 0318 are:

Solar Flux: 74

A: 5

K: 3

72,

Brian, N5ZGT

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: "Brian L. Lewis" <76500.1621@CompuServe.COM>

Subject: [6062] 100 pf Silver Mica Cap

Message-ID: <961210030620_76500.1621_HHE43-1@CompuServe.COM>

I need 2 100 pf Silver Mica capacitors. The local electronic supply house does not have any. Does anyone have any they want to sell? Or maybe know of a source I can get them without having to meet a high minimum order.

Thanks.

Brian L. Lewis

K5RV (Formerly N50CD)

Shreveport, La. (32.26.07n / 93.42.58w)

76500.1621@compuserve.com

09-Dec-1996 21:04:00 CST

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: "duane" <duane@flinet.com>

Subject: [6143] 30 meter band

Message-ID: <199612102238.RAA01399@shell.flinet.com>

ok everyone thanks for the help the band is alive..

My radio is alive too..thanks for all the replies and special thanks to

N0IT Dave for the sked and contact on 30meters. Hey Dave I told you my CW stinks...hope to talk to you again 73's

Duane AB4BE

<http://www.flinet.com/~duane>

duane@flinet.com

ab4be@amsat.org

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: "duane" <duane@flinet.com>

Subject: [6109] 30 meters

Message-ID: <199612101726.MAA18528@shell.flinet.com>

Ok folks I'm listening to 30 meters now and heard 1 person sending CW at 10.120, other than that I don't hear a thing. can someone check the 30m band and give me a report of activity ? I think theres something wrong with my radio.

Duane AB4BE

<http://www.flinet.com/~duane>

duane@flinet.com

ab4be@amsat.org

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: "duane" <duane@flinet.com>

Subject: [6070] 30 meters dead or alive

Message-ID: <199612100359.WAA26578@shell.flinet.com>

Does anyone know if 30 meters is dead or alive ?

I have a 30 meter rig explorer II but have heard very little as of late. I have been receiving a few noises and very few CW signals both in the evenings around 4:00 pm and at night around 8pm. Just wondering if my rig is working or if the band has been in bad shape.

Duane AB4BE SO. FLA> qrp-1#710

<http://www.flinet.com/~duane>

duane@flinet.com

ab4be@amsat.org

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: SNickrand@aol.com

Subject: [6094] 38 spec MODS parts list?

Message-ID: <961210103001_1618641995@emout04.mail.aol.com>

Now that the concern about not being able to get one is over, does anyone know how to get a parts list for RIT, 5 watt upgrade and improved filtering (the key mod list appeared here recently)? May as well get these parts on order as well!

Bill Nickrand KB9KOL

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: dgf@netcom.com (David Feldman)
Subject: [6129] 8044ABM chips found
Message-ID: <199612102028.MAA12666@netcom3.netcom.com>

I called Curtis Electro Devices in California (near sacramento) and found that they sent their remaining inventory of 8044ABM chips (now out of production) to MFJ. A call to MFJ produced two of the chips which are now sitting here. If you are under the impression that 8044ABM chips are unavailable (as I was, not being able to find them at Mouser) you might want to give MFJ a call (starkesville, MS.; I don't know the phone # right now).

I don't know if another dedicated-purpose keyer chip with such low power consumption will be made again, so I was happy to find them.

73 Dave WB0GAZ dgf@netcom.com

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "duane" <duane@flinet.com>
Subject: [6060] a few radio lessons
Message-ID: <199612100303.WAA14177@shell.flinet.com>

How about one of you real tech. guys start a thread about building a radio. start off say with a 40 meter rx start off by explaining the front end and the math used to build the front end, explain the why's and how's to building. maybe one of you guys could pick a design and start from front to back explaining why a 3.5uh inductor was used, what the impedance of the inductor is at 7.1 mhz and the math used to understand it. maybe we could all even build it as the thread continues and we could all learn more about the art of designing and building our own radios. I know it would be a long thread but I think it would be well worth it. Even I need to understand input and output impedance of transistors and class A , B, C operations and how you know when a transistor is biased properly in one of those class of operation.

Any ways keep the design simple but usable for starters. sort of a group homebrew rig with a lot of learning going on.

Duane AB4BE

<http://www.flinet.com/~duane>

duane@flinet.com

ab4be@amsat.org

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: "duane" <duane@flinet.com>

Subject: [6118] a few radio lessons

Message-ID: <199612101937.0AA04486@shell.flinet.com>

I think we should start with something simple like a single band rx possible with single conversion. This is so that a person with no or little understanding can develop better building skills. When I say explain the circuit I mean really explain the circuit therefore it may take a couple days just to get past the tuned input before moving on to the first mixer. This will require someone with a lot of knowledge and willing to answer alot of private email. I don't mind telling you I do not have the knowledge to teach such a lesson. So if we have any takers out there Speak UP. Just think you could be the elmer to about 200-300 hams all at once. So pick a design let us know which one so we can all be on the same page. Hey a scanner would be nice so we could all study the circuit together. If someone takes this challenge I'll scan the schematic we choose to work from and post it on my homepage for download or email it to those who don't have WWW ability.

A true Challenge awaits

Duane AB4BE

<http://www.flinet.com/~duane>

duane@flinet.com

ab4be@amsat.org

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: "Alan Slusher" <slusher@caribnet.net>

Subject: [6082] Almost Got One

Message-ID: <m0vXQ4I-000FSSC@prop>

I heard N8VAR clearly Monday night on 7.036 at about 01:53UTC (Tuesday) calling CQ. I got back to him, and heard him give my call! And then everything went below the noise level.....

Oh well; who said the fox was a tropical animal?

But I am now re-motivated!!!

Thanks, N8VAR.

72/73 Alan 8P9BM
QRP-L 568 G-QRP 9350

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [6092] Banning
Message-ID: <199612101457.0AA10148@chuck.dallas.sgi.com>

Gang,

I can see from the postings that some behind the scenes activity must be going on.

Only one person has been banned from the list from posting, although Jim E. setup the mailer to stop the SPAMMING posts for get rich and other illegal schemes.

The individual that was banned was done because of uncivilized behaviour, i.e. he continued to berate the group as a whole and a number of individuals in public. Why would someone belong to a group and continue to tear it down? The same individual did the same thing by getting into nasty flame wars with other individuals in several news groups also.

I got email from the individual when he asked about not being able to post etc. In the discussion that followed he became aggressive so I stopped the arbitration at that time. I don't have time or the energy to argue with someone who starts after the individual responsible for their being banned in the first place. He said in email that he apologized to everyone that he offended - that was not the case and I have email to that effect. You don't call people names on this group.

I did not really want to do it, but continued aggressive and abusive behaviour caused the banning and continues to do so. Going behind the scenes and individually mailing to each member of the group is also a questionable practice but that's OK.

I am not a control freak. You have not seen me limit discussions on this group other than to mention either in a posting or through personal email that the discussion is about to turn nasty or otherwise. I don't mind the off the topic branches, that's part of life and the ambience of this group. I'm just as guilty as the next person, but you have not seen me take after someone personally.

So for one last time (I hope), here is just a part of the offending behaviour and I quote:

"This LIST group really sucks. Half of you guys don't know your balun from a hole in the ground, and you get on here and rant and rave about your little QRP rigs like you are so superior.

What a bunch of DORKS - at least the ones who can't resist flaming ME over NOTHING at all!"

There were also a number of postings that included in each 1650+ lines of uuencoded text which really started the whole mess off with a bang. Look at 960524 archives and surrounding dates for the history of what was going on at the time.

So if this discussion is to continue I thought about having 25 people come forward and say that they'd be responsible with the condition that if the person was banned again that they too would also be banned. I don't think that too many would take the risk based upon past and present behaviour. I'm open to suggestions so email to me direct, not to the list. It may look like harsh punishment but I don't see any other way. There are some people that are still hurt from the previous business, so let's get on with other more relevent work.....

Noone has sent me a copy of the email being circulated so it must be a pretty bad reflection on me or I've become really paranoid. :-)

So for those of you worried about being banned, don't. I'll let you know when you get out of line. Just be civilized in discussions and try to keep to related QRP topics. Try to refrain from duplicating entire messages when you post. In over 3.5 years we've just about discussed it all and we've gone through all kinds of network policing, let's split the group discussions, etc. Been there. Done that. The group is not up for division anytime soon. So don't get into a network policing mode. This group is far too old to try to change it now. IMHO.

OK, back to your regularly scheduled Q-Dope discussions, Dayton

WX, and in which direction should you wind a toroid :-)

What makes this group great is the level of intelligence and discussions that continue, not one individual. I started the group but like a child it has grown and continues to grow. Let's not see it turn in the wrong direction. We have a lot to learn and a lot more to do before the end of the journey. Live long and prosper is the motto. Enjoy.

Geeez I hate politics. I've got fox hunt reports and a cw survey to get out..... Not to mention the hardware problem that cost me an entire weekend..... ;-) :-) And we waste too much bandwidth having to explain to everyone something that happened early in the year.

Oh, did I mention that 10M was open for 0000UTC to 0500UTC last night (Monday)? The spots are coming back around so get ready for the ARRL test this weekend.

I listened for the fox but didn't hear him. I'm ready for the Novice on Wednesday night. (or was that one of the two that upgraded.....?) ;-)

dit dit de QRP-L #1

SIG

Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50
EMPS QS0s=109 STATES(w/c)=34/2 DX=0

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Scott Bauer <ke3nv@erols.com>
Subject: [6130] building a HW-8 need tips
Message-ID: <199612102030.PAA18277@smtp2.erols.com>

Hello Ladies and Gentlemens,

As I write this, I have an unbuilt HW-8 coming to me in the mail. I have thought of a question before I get started:

Can some of the parts go bad with time? This may sound kinda silly, but I do know that some materials deteriorate over the years.

Does anyone know what I might want to look for, or replace from the get go?

Any tips will be greatly appreciated. Thank you, Scott

.....
Fists 1502, ARCI 8804, G-QRP 8773, Nor-Cal 1094, NE 348, AR-QRP 27

Scott Bauer W3CV (formerly KE3NV, N3RQU) QRP nut SWL
CW Operators QRP Club # 484 (Australia) Grid FM-19, Odenton, MD

.....

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [6051] Computer power supplies
Message-ID: <Pine.OSF.3.95.961209170007.14156B-100000@duke.usask.ca>

I recently acquired a computer power supply because it had an noisy fan
and the computer was still under warranty and it was cheaper to replace
the power supply than to fix the fan.

It looks like a good power supply for QRP. It puts out -5V +5V -12V and
+12V at various amp ratings. There is also a wire labeled G.P.

Is there any reason why I could not use such a power supply for ham work?
Also what does G.P. stand for?

Thanks in advance.

Brian.

```
+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| A Thought for Christmas: |
| The only decent thing to do behind someone's back is pat it! |
+-----+
```

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: gsurrency@juno.com (Gary L Surrency)

Subject: [6148] Curtis keyer POTs
Message-ID: <19961210.161731.3286.1.gsurrency@juno.com>

In the 8044 application notes, it specifies that a "reverse, right-handed semi- log taper, type C3 pot" is the pot of choice for the speed control. Has anybody ever gotten one of these? I tried hooking my standard pot up with the outer wires reversed from the drawin., Hopefully it was a standard audio taper control to begin with so the taper works better when the normal control direction is reversed. This is discussed in the application notes. That is, the speed decreases with clockwise rotation of the control. Anyway, I tried the one in my ARK30, and it seems to have a better range of adjustment than it did before, but that may just be my wishful thinking!

I sure like the digital keyer speed control in the TAC-1 series! I suspect the KC-1 and KC-2 also have nice speed adjustments with linear range. Any comments? How will the TICK keyer speed be adjusted?

72,

Gary Surrency AB7MY
S&S TAC-1 and ARK30
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Bill Todd <bill@techline.com>
Subject: [6081] E-Mail Adr for N0IBT & WA6ERB
Message-ID: <1.5.4.32.19961210081308.0066ba84@mail.techline.com>

Hello Group -

Can anyone tell me the current E-Mail address for N0IBT and WA6ERB? I don't think that QRZ.com had their current addresses.

Thanks -
CUL - Bill-N7MFB
["QRP Forever"]
NW QRP #1 AK-QRP #4, CO-QRP #41, NE-QRP #63,
NorCal #214, QRP-L #715, MI-QRP-#1109, ARCI #6802
(co-owner of Yorkshire Terrier named "Bart")

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Michael A. Gipe" <mgipe@reliablemeters.com>

Subject: [6113] Fifty on Forty (50/40)

Message-ID: <199612101845.MAA30054@multi13.netcomi.com>

Greetings to all on QRP-L,

1997 is the year for WAS! Jim Hydzik has issued the challenge to work all fifty states in the first fifty days of 1997. An opportunity like this usually comes along only once in life, but 1997 is your lucky year, because this is the

***** Announcement of the 1997 *****
50 States on 40 Meters (50/40) WAS challenge

So even if you can't get on the air every day this winter, you still have a chance to make it by the end of the year.

The purpose of the 50 states on 40 meters WAS challenge is to provide an opportunity for members to finish off their personal QRP WAS goal over the next year while still maintaining a balance between work, family, and ham radio. It is also an opportunity for members to complete QRP single band WAS, starting with 40 meters.

Will you accept the challenge to work all fifty states on forty meters using QRP in 1997?

Here's how it works:

Volunteer operators in each state will be on 40 meters for two or three hours in the evening. 50/40 operations will be scheduled for two evenings each week, with a third evening added occasionally for extra fun. Most weeks will have two states to work.

Forty meters is the only band used for this challenge. If things go well, we may see a Fifty on Thirty challenge for 1998. Even those OTs who worked all fifty states fifty years ago know how hard it is to do it all on one band. Here's your chance.

The exchange is CALLSIGN, RST, STATE/PROVINCE/COUNTRY, NAME, POWER. The state will call CQ WAS QRP de KL... All QSOs are limited to 5 watts or less, of course. Only fully completed QSOs with all the information will count for the awards, though partial exchanges may qualify you for other organizations' wallpaper. (QRPers like to do things the hard way!)

Speaking of awards, there will be certificates issued to those who work 30, 40, or 50 of the states. In addition, the station who works the most states will receive a brand new 38 SPECIAL kit for his or her effort! (In case of a tie, a random drawing will select the award winner.) The noble

volunteers who represent a state will also be entered in a separate random drawing for a second 38 SPECIAL transceiver kit.

The state's logs will be posted here on QRP-L, and a monthly update of status will also be posted.

Fifty on Forty will begin shortly after the Fifty days of FSFD have transpired. To be specific, the first state will appear the week of February 23, followed by one or more states each week until the end of 1997. The states will be scheduled in random order.

Stay tuned for more information.

***** PATRIOTIC CALL TO DUTY *****

This is a call to your sense of patriotism! Statesmen, Stateswomen, and Statedudes are called to represent your local state in the diplomatic exchanges scheduled for 1997. Here is your opportunity to rise above the status of common citizen to the glory of higher office and national service. We want you! History awaits you.

Please email K1MG (mgipe@reliablemeters.com) to volunteer your service. Operators from all states and all levels of experience are needed, so volunteer today. Who knows, you make actually work all 50 states in ONE NIGHT!

50/40 or fight!

Mike K1MG
Saratoga, CA

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Bob Hightower <ki7mn@dancris.com>
Subject: [6123] Fifty States in Fifty Days
Message-ID: <199612101939.MAA12384@dancris.com>

I have just added Mike's note to my page for your reference. It's at <http://www.dancris.com/~ki7mn>.

73,

Bob KI7MN

NorCal #1221 ARI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: "David Kreinberg" <kreinbd@ccgate.dl.nec.com>

Subject: [6102] FILTER REPORTS TU

Message-ID: <9611108502.AA850240362@smtpgw.ccgate.dl.nec.com>

Season's Greetings!

Many thanks to all of you who took time to
post your comments on my questions of DSP
vs 500Hz internal if filter.

By far, the overall majority said to start
with the 500Hz filter, then follow-up with
the DSP, if necessary. The idea is to filter
the unwanted noise/signals BEFORE the stuff
gets to the audio stages. The DSP must do
a lion's share task of filtering out the junk
after its gone thru the entire system and been
amplified, etc. The DSP can do a good job, but
it's always best to do the filtering early on.

I'll go this route. The FT-840's 500Hz cw filter
can be had for abt \$100 by the mail order places.
I have a MFJ-722 active filter which does a decent
job on most junk. This coupled with the i.f. filter
should prove to be most valuable.

BTW - according to Texas Towers (local dealer) the
Timewave DSP-9 I was interested in has been discontinued
and they (Timewave) don't support it any longer. Glad
I checked. I guess their newer models are bigger/better
(read higher cost!).

See you in the 10m contest. Happy Holidays Ho Ho Ho.

73 de Dave NR3E
nr Dallas, TX
QRP-L #25

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: brad mugleston <bmug@gwl.com>
Subject: [6044] Fox - Novice Tech Schedule
Message-ID: <01BBE5EE.294CD960@pps-pc10.gwl.com>

***** FOX ALERT *****

I will be the Novice/Tech+ Fox on December 12th from 0200 to 0400 on
7.112+- (that's Wednesday night 7:00pm MST).

I added another 8 feet in height to the center of my G5RV in hopes of
getting away from the wind blowing my signals into the dirt. The weather
here is in the upper 60's but we are getting some wind at night - we need
some snow to clear the air.

Again I need the SW states, and Alaska and Hawaii and Texas - I did talk to
a nice nurse from Texas the other night - she's had her licence since
November 8th 1996 so I figure if a newby can do it someone like Chuck
should be able to get out of the state too.

Don't forget - Ill be there.

Thanks

Brad - KB0ROL

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [6134] FOX hunt prizes
Message-ID: <199612102135.VAA11634@chuck.dallas.sgi.com>

Gang,

Need to get this fixed in concrete or at least in something
to hold down the sands of time.

Prizes for the E/G/A class of foxii and hunters.

1. SWL GM-XX to the leader of the foxii other than Stan, N6XU,
or other previous winners of same. :-) Sorry Stan, you've
proved to us how good your antenna system and how good an
operator you are. ;-) (oh, SWL - Small Wonders Labs

OHR Explorer I kit (unbuilt) for 40M to the leader of the hunters. (OHR - Oak Hills Research)

All bought and paid for by Chuck Adams, K5F0.

Prizes for the N/T+ class of foxii and hunters.

2. Two kits from NorCal, SST's, paid for by either Doug Hendricks, KI6DS, or Chuck Adams, K5F0, pending outcome of the CA-TX race during the hunt. These kits to go to the leading Novice Fox and the lead Novice/Tech+ hunter. With all the upgrades they could be on the band of their choice.

Now I have other prizes like mugs, QRP ARCI memberships either renewal or new, I am open to other contributors or knick knacks for those that want to aid the community at large. As soon at the first of the new year rolls around I'll post the final list. If you wanna help, come on down.

SIG

Chuck Adams (K5F0 CP-60) WAS 40m/30m/20m=49/49/50

EMPS QS0s=109 STATES(w/c)=34/2 DX=0

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Doyle, Ron" <doyler@uh2297p01.daytonoh.ncr.com>
Subject: [6104] Fox log for Monday 12/10/96
Message-ID: <32AD97E5@sdcwinn.daytonoh.ncr.com>

OK, It's over but the dust hasn't settled yet. I managed to make it home 10

minutes before time to start the hunt. I was all ready. A couple of minutes before 0100 I tried to check my antenna tuning and essentials like output power. Nothing, the TNC wasn't keying my knwd ts430. I switch radios to the trusty QRP+. Same thing. I sat back for a minute and contemplated. While looking at my computer screen I saw I hadn't changed the TNC to cw mode. Ah, now it works. All looks good so I call cq. I was not prepared for what followed. There must have thousands of qrp sigs all at once. While the QRP+ took all this in stride I had brain freeze. Then w6zh tail ended the masses and I was off and running. My ears were not accustomed to so many signals at one time so I had some difficulty picking out calls. Even though I heard everyone real good I still had to call QRZ once or twice each time to see if someone would pop out. It was a little slow doing this but I was making contacts.

N5ET was surprising. Bob, from TX called several times and I was trying to

pull out a weak one then decided to catch Bob because it didn't matter who or how many were calling, his sig just came in clear as a bell. He wasn't any stronger than anybody else but clear anyway. He tone was just a shade higher which may have made the difference.

I was muddling along when a real strange call came through. I could catch pieces of it but didn't trust my hearing since it was so unexpected. Alan 8P9BM was making a valiant try and I got most of his info but it was not the

normal US I was expecting so missed his location (I am waiting on e-mail to correct this) Alan's sig was pretty good but we were running into some qrm that was making this a little difficult.

Speaking of QRM, there was about 45 minutes of the first hour where I had someone tuning up or digital sigs along with everything else. I was doing my best to sort out this mess which slowed me down some. Then to make a bad

night worse the band died at 0225 with the last call from Vernon, KK5RO from

OK. Did you turn the band off when you were done? Don, AC5II is not happy since he is also from OK and tried just minutes later and didn't even get a hint of me.

If you look at the results you will notice it was nothing like I expected.

There wasn't anybody from PA, VA, SC or anybody east or north. LA was the closest to what I was expecting. I am convinced that CA and TX have secret weapons that they are not sharing with the rest of us. OK made a great effort but they just didn't have those secret weapons. To top off the surprises was Alan 8P9BM.

I want to thank all the hunters that tried and those that hung in there with the poor conditions and all the QRM. Here is the first pass at the results.

Count	Time	Call	RST	RST	Name	State	#/Pwr
1	1:00	w6zh	449	439	Pete	CA	257
2	1:08	k5wo	449	449	bob	TX	273
3	1:10	ab5ua		339	339	Clif	OK 478
4	1:12	ke4yh		569	459	Stew	FL 590
5	1:15	kk7bd		339	339	Dan	AZ 5w
6	1:19	n5et	559	559	Bob	TX	
7	1:25	wb0cld		339	449	Bill	MO 279
8	1:29	ke5tf		449	449	Linda	TX 5w
9	1:30	k5rv	339	339	Brian	CA	324
10	1:32	k5lu	559	559	John	LA	5w
11	1:36	k1oj	449	339	OJ	TX	731
12	1:38	n6xu	339	229	Stan	CA	66
13	1:40	n9ss(g?)		339	539	Bill	IL 859

14	1:44 aa0xi	339	339	Marshall	CO	153
15	1:48 k6unx(?)	229	339	CA	5w	
16	1:52 8P9BM	339		Alan	568	
17	1:58 nq7x	339	439	Floyd	AZ	343
18	2:03 w6su	229	339	John	CA	48
19	2:08 w7kxb	229	549	Bill	WA	4w
20	2:10 w6bar??	229	53?	CA		
21	2:19 k5zty	559	559	Bill	TX	473/5w
22	2:24 w5fn	338	339	Tim	TX	586
23	2:26 kk5ro	229	229	Vernon	OK	325

TX 6
CA 6
OK 2
AZ 2
IL 2
DX 1
CO 1
FL 1
MO 1
WA 1

72 de Ron, N8VAR

Ron Doyle, N8VAR qrp-1# 263, arci# 1774
NCR - Dayton
Work (513) 445-3179
Home (513) 237-0790
<Ronald.Doyle@DaytonOH.NCR.COM>
<n8var@juno.com>

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>
Subject: [6150] Fox Report: N/T Fox
Message-ID: <M1183481.004.81k04.1.961210233605Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Tim KB9LGJ:

This is a first for me, Tim. Missed the regular fox, and caught a Novice Fox in his place.

Great to hear you in there. You were thin but solid copy. Glad we could pull it off.

Look forward to seeing you down band with the rest of the "old timers" in future.

72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>
Subject: [6151] Fox Report: Regular Fox
Message-ID: <M1183483.006.81k09.1.961210233608Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

Tried hard to pull you through, Ron, but no luck.
Surprisingly, only heard a very few stations even calling you. Did hear AB50U, K50N and KM1G, but didn't hear them actually working you.

Heard very few stations on band at all last night.

We'll try again another time.

72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: n8var@juno.com (Ronald D Doyle)
Subject: [6071] Fox, Monday night first impressions
Message-ID: <19961210.030233.2295.4.n8var@juno.com>

Wow! What a blast!

I got home from Scout meeting with 5 minutes to spare. My son made me something to drink and I got all set up. Called CQ pretty close to 0100 and was completely blown away with all the calls. Fumbled through until the Band went dead at 02:25. Then nothing, and I do mean nothing. There was occasional static crashes that did my ears wonders but no sigs heard.

My report will go out tomorrow after some sleep and review of my log.

Thanks to everyone who tried. I had fun and look forward to my second shot at being the fox in January.

72 de Ron, N8VAR

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Bill Myers <bmyers@destin.nfds.net>
Subject: [6055] FOX: and QRM
Message-ID: <1.5.4.16.19961209203036.2377c984@destin.nfds.net>

At 08:22 PM 12/9/96 -0500, Dean Marzocca wrote:
>Can anyone tell me why RTTY has to fly over NJ everynight
>at 8pm on 7.037??? And also, why does everyone tune up on
>the same freq at the same time????????

Between the tuner-uppers, RTTY, and CQ'ers, it got real busy on 7.036 tonight. I heard the fox for about 10 minutes, then he dropped back into the noise level.

Heard a number of stations getting him though...

72

--

Bill Myers KK4KF Grid - EM60rk
FISTS#2390 QRP-L#755 ARCI#9282 scQRP#42 CQC#386
Snail Mail P. O. Box 178 Shalimar, FL 32579
e-mail <bmyers@destin.nfds.net>
homepage <http://destin.nfds.net/~bmyers/>
 (Reptiles/Emergency Services/Amateur Radio)
CHECK OUT THE FISTS INTERNATIONAL CW CLUB U. S. HOMEPAGE
<http://n9nvv.qrp.com/~fists> (That's N 9 N V V)

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [6133] FOX: Fox Standings
Message-ID: <199612102105.VAA11500@chuck.dallas.sgi.com>

Gang,

Here is the latest and greatest from all the postings up to this week.

It is going to come down to the last run for the final standings on this one. The race is close.

Foxhunt Current Standings Week #11

The Big Game!!!! CA-9 TX-12

Fox Scores

CALL	CONTACTS	STATE	TOTAL POINTS
K2NF	59+47	FL	106
NQ7K	37+49	AZ	86
KU7Y	57	NV	
W1HUE	55	ID	
AE4IC	53	NC	
WA5VQK	50	TX	
WB8RUQ	47	MI	
N9DD	40	IN	
KS4L	38	AL	
AB5OU	37	NM	
N2VPK	36	NY	
W03B	29	MD	
N2TNN	29	NJ	
KA5DVS	25	NJ	
AE9K	23	WI	
N8VAR	23	OH	
WB5QMP	22	ID	
WA1GUV	21	VT	
KF2PH	12	NY	

Total Qs (a bunch)

Novice and Tech+ Scores

KB9JLO	12+ 9+19	IL	40
KB0ROL	12+ 9+11+ 18+ 4	CO	54
WA7SSA	7+ 5+ 3+ 14	ID	29
WD4MSM	5+ 5+ 9+ 3	IN	22
KB9LGJ	11+ 3+ 5	AZ	14

Total Qs over 150

Note: X.5 means X regular foxes and .5 means one Novice(5 pts)
so that score is X+5. Only one Novice per non-Novice stn.
So 3.5 means 3 regular and 1 novice for total of 4 contacts,

but 8 points total. Only one Novice contact allowed for
for the five points for the season for stations other than
Novice/T+.

Hunters Scores (and it's a close race)

Leader: (18.5) N6XU Stan in CA

W0CH(4.5) AA0XI(15.5) W00Q(10) WB0CLD(5) AB0CD(3.5) KI0G(2.5) AA0XZ
KQ0I WA0FGV NI0A(6.5) K0EVZ(2.5) WA0RPI(2) KD0SU(2.5) KB0VCC(2) AA70A
N0TFI KB0PJ N0UR(2) AB0DC K6QD W0HEP(0.5) KB0YMI(0.5) WA1GUV N0PMY(0.5)
K1MG(13.5) AK1P(7) WA1QVM(5.5) W1HUE(12.5) N1RXT(3.5) KA1AXY(3.5) N1QQV(4.5)
KC1GS W1UI(0.5) AA1MY(2.5) WA1YIA(1.5) KC1FB(2.5) K10J(3)
AA2WJ(9) AA2PF(6) N2G0(4) WZ2T N2VPK(6.5) K2VNM(5) N2YRJ N2TNN(3) K2NF
KG2DP KF2PH(1.5) N2T0 W2DP
K3ETS(2.5) N3SLR N3KFL W3PNL(3.5) KA3WMJ(3.5) W03B(3.5) KT3A NR3E(2) W3WZ(3.5)
KV3NX AA3MD NF3I(1) KA3WMJ
AE4IC(7.5) WB4ZKA(3) KE4YH(14.5) W4STX KS4L(2) KE4KDT(1.5) AD4ZE(3) WJ4P(2)
K4CGY(2) KK4KF(4.5) N4S0(5) KI4JA NR4N(1.5) N4EUK(0.5) KS4HQ(0.5)
K4PQC KS4V KQ4AL N4IM KC40 AD4Y0 AE4MX
N5ET(17.5) AB50U(9.5) K5W0(7) KK5R0(15.5) W5TFB(15.5) AB5UA(14.5) K5UP(9)
K5ZTY(9.5) KK5MC/5 WA5WHN(2.5) AC5II(7.5) N5JKY(6) K5F0(6)
WB5QMP(4.5) WB5QYT(4) W5VBO(3) KK5GJ(1.5) K5RV(10) W5HNS(7.5) WA5CVM
AC5CI KA5DVS(2) NA5N(4) KA5T(9.5) WD5GKH K50N(4.5) KB5YVT N5LU(8)
KE5TF(9) W5FN(17.5) N5AL0(2) KE5FT KJ5SP(2) K5JHP(3) WB5J K5M0 KC5R0(3)
W5CTZ KJ5VW(2) W5XE KK5NA K5JP K5ID(1.5) NA5K
KK6MC(10.5) N6WG(8.5) KQ6AG(4) W6BAB(12.5) AB6DG(4) KI6DS(3) WA6NAE(5.5)
W6ABX K06KA(8.5) KI6SN KD6ZMJ(2.5) WA6MOK(0.5) K6VNX(9) N6XI
WA6HHQ(5) AA6R(3.5) WA6OWR W6EMT(3) N6GA AC6KW WA6GER(2.5) WA6RAE
W6EMD(3.5) WB6LMA(0.5) KI60Y(2.5) N6XU(18.5) N6KR(0.5) W6ZH(7)
N6PDX W6SI WA6EIW W6KAK K6JI(2.5) N6MM(2) W6SU(4) W6IM(0.5)
W6JHB WA6NAT WD6FDD
KK7BD(11.5) AB7ST(7.5) KC7NEV(8.5) NQ7K(7.5) NQ7X(17.5) KU7Y(10.5)
KI7MN(4) N7KT(5.5) N7GS(8.5) WW7Y(3) N7MFB(2) WB7DUO KG7PV W7JDZ(5.5)
AB7HI(2.5) KJ7NS(2) AB70A W7SNV(2) N7CQR AB7MY N7MFB KJ7LB(0.5) KE7X
W7LR KJ7UN(1.5) AL7FS(1) KE7IT(2) N7CTJ AA7QU(3) KA7YOU W7GVN
W7FXH(0.5) W7KXB
W8DN(9.5) WA8CDU(9.5) W8KC WD8LDY W8EO N8VAR(3.5) K8IDN N8CQA K8DD AC8W(2)
KF8EE WD8KQY
AE9K(3) W9UQB(3) N9DD(6.5) KB9IUA(8) K9DZE(3) NN9K(7) W9ZSJ NY9B(3) WA9PWP(4.5)
N9RYI WA9YLB(2) WB9LEF N9HH(4.5) W9DZ(3) N9SSG

VE7CQK(5.5) VE3JC(5.5) VE3SP(4) VE7SL(6.5) 8P9BM(1)

Novice Stations working foxes - these count in separate class of
prizes. Let me know if you are N/T+ and have worked a fox and I
put you in the above grouping.

WA7SSA(5) KB9LGJ(1) KB0SJY(1) KB0ROL(1)

SIG

Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50
EMPS QS0s=109 STATES(w/c)=34/2 DX=0

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Dean Marzocca" <n2tnn@ifu.net>
Subject: [6072] Fw: QRM
Message-ID: <199612100413.XAA28924@mail.ifu.net>

> Subject: Re: QRM
> Date: Monday, December 09, 1996 11:04 PM
>
>
>
> He who
> > has the biggest signal owns the band!
> >
>
>
> Rich,
> I have a plan to get one of them digi-dinks (i think you
> called them) receiver/translaotors and as soon as I am
all
> set up after spending all that money which could have
gone
> to buy qrp rig kits, they will be gone from the airwaves
> for good. I will pretend that they are foxxes or foxii
and
> never hear them in NJ. I might even buy a 100kw amp and
> that will really scare them off.
> I can always have the QRP++ ready to go..
>
> Tnx for the reply, 72 Dean in NNNNNNNNJJJJJJJJJJJJJJJJJJ

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Mel Evans <101366.3072@CompuServe.COM>
Subject: [6122] Ham Musicians
Message-ID: <961210193811_101366.3072_JHP108-3@CompuServe.COM>

Here's my two minims worth. I can safely say as an ex-pro musician, I have been struggling to get up to 8wpm cw for the last ten years.

Must be the slow blues we used to play lots of.

Mind you, it can be fun trying to find letters to fit the various classical pieces, as per Beethoven 5 ..._ as used for V for Victory WWII.
And then there's HIW for the 1812 overture __

72 and 73 de Mel
Edinburgh, Scotland UK
Home of the last HW9

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: svecbrdk@well.com (L.Svec,W.Burdick)
Subject: [6080] Hot off the press: Wilderness mini QRP Field Log/DX Countries List
Message-ID: <199612100732.XAA26193@mh1.well.com>

To all who ordered the Wilderness QRP Field Log/Reference sight-unseen, and who took it on faith that I'd finally finish it someday, thanks for your patience! Bob at Wilderness has just packed up and sent out the first batch.

[For those who hadn't heard about this project: Doug Hendricks, KI6DS printed a small batch of NorCal mini-logs a couple of years ago. Since then it's all I've ever used, and I tried to talk Doug into doing more, but he had too much on his plate. I had also heard that there was no longer a minilog available from the ARRL. So I've reinterpreted Doug's original design, adding a few twists, and it's now available from Wilderness Radio...]

Anyway, I think you'll find that it was worth the wait. The logs are just the right size to fit *inside* the Sierra (about 4" x 5.5"), and have a very high-quality double-wire binding. On the inside front cover, I added a *round* frequency allocation chart (with QRP frequencies highlighted) reminiscent of an antique Hallicrafters radio dial. Let me know what you think--it's quite different from the traditional Handbook-style frequency chart.

Here's the best part: the back cover (actually 2 heavy cover sheets, not one) includes a very readable rendition of the DX countries list. It's something I've always missed when out in the field. We started with a list provided by Chuck Adams (K5FO). (Thanks, Chuck!) Then Bob Dyer (KD6VIO) and Jerry Moore (KM6IU) added all of the synonymous prefixes into the list

in alphanumeric order--a feature some other lists lack--and painstakingly checked the list for errors. We'll update the list on subsequent printings.

Hope you like it!

73,
Wayne
N6KR

Wilderness Radio: 415-494-3806.

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: penc@elan.mrwo.mcgill.ca
Subject: [6138] How I became a ham
Message-ID: <9612102208.AA11264@elan.mrwo.mcgill.ca>

Hi all:

Nice to read all these stories on how some of us got into ham radio. My story all begins, for the most part with an interest in QRP. I really didn't care much for electronics until I was a teenager, the time when one usually discovers the other sex, sports, and the like. About age 14, I started putting together those Radio Shack kits, called "P-Boxes" (anyone else remember those). I used a nice big fat 40 watt iron with a tip the size of a small chisel. Never got a kit to work. Actually even before, I was introduced to a local ham Glen Rahn, through a fellow list member Gary Diana (N2JGU) who happens to be my cousin. Growing up in the Utica NY area, I had access to alot of electronic components since GE was a major employer in the area. My first real ham experience was with QRP. I met Mark Leach now W1ML, through a common friend Steve "Blinky" Roberts. We went to the Rome NY Radio Club hamfest in 1974, and I was fascinated with the annual QRP contest that they held. They would throw a simple dipole in the trees and give each contestant 15 minutes to make as many contacts using a Ten Tec power mite as one could. It was ML's ability with the code which gave me the desire to learn the code. Finally in 1979 I earned my Novice (KA2EXG).

I moved to the Washington DC area in 1983, and the proximity to the FCC office in Baltimore allowed me to study for my General, then Extra ham tickets. I wasn't satisfied- so I then worked on and obtained my FCC

General Radiotelephone (no more First Class at the time, I was saddened), my radar endorsement, and then my Second Class Radiotelegraph (to obtain first class I would have to go to sea or work at a coast station). Through all this, my primary interest was in building. First I started with a couple superregenerative SW receivers (learned to use less heat and my P-Boxes all worked), then with some low powered AM and FM transmitters (I won't tell you how well they worked for fear of incriminating myself). I also did alot of repair of equipment at the NASA Goddard Radio Club WA3NAN) including power supplies, antennas, rotators, etc. I have been active as a VE from the start of the program.

Nice to hear how all the rest of us became interested in the hobby.
Hope to hear more.

Rich, WK2A

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: jayboy@psnw.com (Jay & Jackie)
Subject: [6064] How many rigs does it take?
Message-ID: <199612100311.TAA07814@sierra.psnw.com>

Home from teaching and pick up the usual 70-100 postings.....love the info. 40A working great, just finished the NW8020 for 30 meters and opened the LDG ant tuner box...I'll find time to grade papers tomorrow at school. KC-2 is ordered, TiCK is ordered, and the XYL is asking what I want for Christmas? A Sierra of course! Just spent 10K on a used Jeep (How else you gonna get this stuff to the top of the hills this summer?) God I love this hobby...it's so cheap!

Look for me in the mountains east of Bend, Ore all summer (if I can afford the gas to get there)!

Jay WA6JDB

Madera, Ca (All the awards QRO, but they don't count here)

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Michael Connor" <mikec@primenet.com>
Subject: [6038] HW7 Manual request/Novices
Message-ID: <199612100016.RAA20222@primenet.com>

Gang,

Thanks to all who responded to my request
for an HW-7 manual. What a great group!:-)

I would also like to pass on a couple of
"atta boys" to a couple of our Novice Foxes
who have recently upgraded.:~)

Tim KB9LGJ
Barry WD4MSM

CONGRATS!

Mike
NQ7K

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Brian L. Lewis" <76500.1621@compuserve.com>
Subject: [6085] I found my 100 pf cap!
Message-ID: <961210123214_76500.1621_HHE50-5@CompuServe.COM>

Wow! What a response to my request for 100 pf SM capacitors. Overnight, I
had several offers and lots of information.

Thanks to everyone that offered! N4XY is sending me a couple of them.

72/73

Brian L. Lewis
K5RV (Formerly N50CD)
Shreveport, La. (32.26.07n / 93.42.58w)
76500.1621@compuserve.com
10-Dec-1996 06:22:24 CST

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: QRPDave@aol.com
Subject: [6142] Inductor coils
Message-ID: <961210173012_1388322743@emout20.mail.aol.com>

Oops! Meant to append this to my last posting--SRI. Am looking for two (2) TOKO or BKXN-K3335R coils to help complete my Sudden receiver for 20M. So far, I have to wait 10 weeks and order 100@\$1.68 per. Anyone have two of them I can buy? TNX and 73! QRPDave

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Mel Evans <101366.3072@CompuServe.COM>
Subject: [6120] Junior possibles
Message-ID: <961210193806_101366.3072_JHP108-2@CompuServe.COM>

Hi Dean,

I'm a registered Novice Instructor with the RSGB, I've put about five or six under twelves through their Novice exam here in the UK.

The main problem is the attention span. Keep it interesting with short lessons and lots of practical work. Let them play with the radio a lot. Build something that is guaranteed to work, a one transistor transmitter for example, try cw a bit at a time, teach them their names in cw.

Try to keep one lesson ahead all the time. (You'll find this quite hard actually), and it's amazing what you'll have to find out about or re-learn if you get them to ask YOU just one question each week. If you can, print out a fake multiple choice question sheet as near as to the exam format as you can get, and do this each week on very easy questions to start with. You need to get them used to taking a big grown-up exam.

(When I say easy, make em up yourself, such as the +ve connection is usually a)red b)blue,c) green, or d)black) You'll get the biggest kick you've ever had when your protege tells you their new callsign and then works you on the air>

72 and 73 de Mel
Edinburgh, Scotland UK
Home of the last HW9

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: FDenson@aol.com
Subject: [6111] Keyer Specs
Message-ID: <961210132814_674696615@emout03.mail.aol.com>

Does anyone have info on Nye Viking SKM-1?

thanx
73s
Frank KE6SRR

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Phillip S. Rutledge" <rut@mcrut.mv.com>
Subject: [6146] Lost Mail
Message-ID: <199612102311.SAA11736@bort.mv.net>

Major snow storm damage in Southern NH. Utility Co says maybe up to 4 days to fix it all.

Meanwhile Im on a generator but lost over 120 msgs when it ran out of gas. If anyone sent me a question or a reply please resend. I know enough now to save and exit before replying!

Tnx.....Carl

What he said goes for me too. We just got our power back having been out since Sat. nite!!

72==Phil (NH)

=====
Phil Rutledge--K1HS-- rut@mcrut.mv.com

ARCI#9265=Norcal#1797=N.E. QRP Club#489= QRP-L#820= CQC# 385
=====

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: bruce muscolino <w6toy@pop.erols.com>
Subject: [6067] Miscellaneous Ramblings
Message-ID: <199612100333.WAA01171@smtp2.erols.com>

There have been a number of message threads running on here lately that beg for a public answer. Among them are whether there should be slow speed contests and the reduction of W1AW code practice broadcasts.

The reduction of W1AW code practices broadcasts may not have the sinister implications some are happy to attribute to the League's motives. It may simply be an issue of reduced funds. While the W1AW operation is largely

automated, it still requires an operator be on duty while the station is on the air. Perhaps the League feels the cost savings realized by not having an operator there two mornings each week is worth the reduction in service. In any event, while many of you list a multitude of QRP clubs and exotic callsigns in your signature files, I don't very often see the ARRL listed. I'm reminded of Wayne Green's proclamations that he is an ARRL member simply so he can complain when it is necessary. How many of you can say that? If you're truly upset by this reduction in code practice broadcasts then join up and complain.

Now, the hue and cry over the reduction of code practice broadcasts by W1AW implies that many of you listen to them. Is this true? Then why do we need a slow speed CW contest? Mind you I'm not against the concept -- I think it has valid applications. Two years ago when the League gave up on the Novice Round-Up I suggested to Cam that the QRP-ARCI take this contest over and run it as our own. He seemed to think it was a good idea then, and the rumblings from Newington about a new Novice contest notwithstanding, maybe we should take another look at this.

Another somewhat unrelated point that needs airing is the propriety of postings and comments. I won't get into the Byran Carling/Chuck Adams debate -- I number them both among my personal friends, and I only know one side of the story. However, it seems to me that a lot of problems would be eliminated if we made many of our postings PRIVATE, between the sender and receiver, rather than airing them out to the list. By the way, PRIVATE means exactly what it says. When you receive an email sent to you personally, it is improper to quote that to the rest of the list without asking the author if you may. It's a lot like copyright, without written permission it's meant for your use ALONE.

I'll put my flame suit back on now and wait for the fire department. Thanks for the bandwidth. You're free to delete this before, during, or after reading if you think I'm out of line.

Your resident curmudgeon...

--

Bruce -- W6TOY/3

Still QRP, Really! (c)

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: wager@juno.com (James W. Cates)

Subject: [6048] Monday Mail

Message-ID: <19961209.172845.3918.11.wager@juno.com>

Received 56 pieces of NorCal mail today. I am processing it now. Will

respond to everyone who has asked for conformation of 38 Special order.
Just give me a couple of days. Tnx.

This group is something else! What a great response to the new club
project announcement!

Seasons Greetings to all, jim, WA6GER.

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: JessQRP@aol.com
Subject: [6079] New TE NE KE!!! Like the NE KE
Message-ID: <961210012409_1153567632@emout11.mail.aol.com>

Hi All.

Boy did I just get a neat new toy. If some of you remember there was an itme in Dave Ingrams column about 2 months ago for a new key called the NE KE that was for mobile use. I was perusing the last issue of Amatuer Radio Trader and noticed the same fellow had a new key he was selling called the TE NE KE (Tiny Key get it? Hi). Well I promptly sent off my \$39.00 and placed the order site unseen. I called and asked a few questions about the key and it sounded intriguing. I cannot really explain how the thing keys. It is a copper looking plated u channel of metal. The key contacts are copper spring material that is bent in a U shape. The base is really gorgeous. It is brass plated and matched the copper look of the key perfectly. The base is about 1 " by 3.5 " and almost an inch thick made of steel and this bad boy stays put! There are 4 clear rubber feet on the bottom. Here's the neat part. The keyer mechanism "stores" over the base by laying parallel on top of the base. To use the key, you loosen a thumb screw and swing out the keyer paddle at a 90 degree angle to the base for use. This causes the spring "paddles" to sit at just the right height for a keyin'. Really a nice peice of work. All of the parts on the paddle are very good to high quality and you can tell the whole thing is hand assembled and most of the parts are hand made. The paddles are a little different than what you are normally use to, there is a bit of mechanical feedback but almost feel like touch paddles or capacitive paddles. If you look close, the way that the paddle works is that there is a curled lip on the front edge of the "spring" paddles, and an adjustable grounding u shaped "slide" that is held in place by a screw. When you squeeze the paddles, this causes the "spring" to contact the u shaped contact and sets the keyer a goin'. Great idea!
Here's the poop from the ad.....

NE KE MOBILE PADDLE descibed in August issue of CQ has a little brother TE NE KE swing away paddle, swings into transport and out to use w/1 thumb screw.

Brass, aluminum, and beryllium copper constructed on a chrome plated steel base. Evenings call BOYD, N8VKA, 616-837-7182, NE KE Products, 8297 Cleveland, Coopersville, Michigan 49404.

Let me add to this that Boyd sent me a note with the key saying that he did not like the way some of the chrome plated bases turned out and that is why mine was on the brass plated base. Really purty and I think that the brass plating is really a touch of class and something different. The best part is the quality for the price! Now I think the best part is that when I turned mine over, it was serial number 2! I think that I have a keeper here! I do not collect keys, but what the hey, if I can get a low serial number and a good price, I will take it any day!

He also mentioned that the TE NE KE may be on the cover of the February CQ, so you better get them while they are around!

Mention my name as a satisfied customer, I promised that the QRP crowd would go ape over this key for it's uniqueness and portability and value for the money. Sorry to rave on and on, but I think this is a really cool key!

I will take a picture and scan it in if anyone is interested, but it will be in black and white as that is the only scanner that I have right now.....

Best
Jess NOTFI

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Tim Ahrens <tahrens@engserv.sps.mot.com>
Subject: [6145] Noise Bridge vs imaginary
Message-ID: <3.0.16.19961210180636.2b37e274@engserv.sps.mot.com>

Hi Folks - I need a little help (some say more than others).

I'm working on my phased vertical array (triangular), and have been using my noise bridge to measure the drive impedances.

My noise bridge (built from a HAM RADIO article by Forest Gehrke) has a 365pF variable, with a 180pF fixed cap in line, so the cap/inductance knob goes from 180-0-180.

Measuring a 50 ohm load with a 20pF capacitor paralleled, the settings show: 50 ohms, 20pF. The 20pF shown is actually about 160 pf on the internal capacitor.

How do I convert these readings to the 'standard' xx +/-jxx format?

I'm learning a lot of stuff here!

Thanks,

Tim W5FN

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Timothy R. Gordish" <105020.2634@compuserve.com>
Subject: [6052] Novice Fox Report
Message-ID: <199612092059_MC1-CE0-934C@compuserve.com>

Good night for Canadians! They accounted for about 2/5ths of my contacts. These are my first international DX, so expect a QSL card. Unfortunately I didn't get out very well even though I went through all the trouble of putting up a 40 meter Dipole/V. Here is my log.

Time	Call	RST	State	Name	NR
0:38	VE7CQK	559	BC	PAUL	30
0:45	W7FXH	599	AZ	STEVE	?
0:50	W6EMD	559	CA	DAVE	294
1:00	VE7SL	559	BC	STEVE	769
1:20	N6WG	339	CA	BOB	27

Thanks to all that made contacts or tried without success. Maybe conditions will be better next time.

73/72

Tim KB9LGJ Yuma, AZ
QRP-L 457, ARRL, IDEA, SCQRPIONS, NORCAL

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Paul Cereste <cereste@myapc.com>
Subject: [6114] Outer banks antenna
Message-ID: <s2ad6b14.005@myapc.com>

Joel and list,

I was on Ocracoke Island (outer banks), NC last year. It was a fishing trip, but I brought along my FT-890 which I planned to use to make QRO contacts to friends in Maine.

As it turned out, I did, but I also got into some spur of the

moment QRP work. I had a QSO with someone in Ohio who was using a MFJ 9040. He was a 579 and needed the county I was in. This inspired me to turn down the pwr to <5W, which I did. I then had a 40 M SSB QRP QSO with a NC ham.

I learned about the IOTA program from him (I've been a ham since 1961, but didn't know about IOTA until that trip. Hard to brlieve, but true), and I have been collecting islands since then.

My antenna (remember that's what u asked about) was a dipole (half wave - 40 M) which I srtrug from the peak of the "camp" (by reaching out a window) to a guy wire that supported a windmill power generator (that was there, I didn't put it up). The house end was abt 25 feet high, the windmill end was only about 10 feet high. Feed was 50 feet of RG-213.

Since that trip I have had QSOs with other outerbanks hams. Some were residents, but most were vacationers. The best antenna I heard (and I realize conditions, power, etc. all play a part) was a "Carolina windom" that an OM was using from Frisco, second best signal went to a YL on Ocracoke using some kind of vertical (Gap I think).

Have a nice trip. Hope to hear u on the air.

73, Paul K1CGZ Wiscasset, Maine. Trying to get an "Ugly Weekender" up and running from the parking lot of my salt mine sometime real soon. C U all on 7.040

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [6124] Paintbrush file for schematic drawings
Message-ID: <Pine.OSF.3.95.961210134723.29290A-100000@duke.usask.ca>

Someone mentioned that the ARRL had a file that included some commonly used ham symbols in paintbrush format. Does anyone know the name of the file. I looked at their web site and could not find it.

Thanks.

+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |

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| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| A Thought for Christmas: |
| The only decent thing to do behind someone's back is pat it! |
+-----+
```

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Ron Giuntini <rong@slip.net>
Subject: [6095] Palomar Noise Bridge
Message-ID: <E0vXUcW-0003KH-00@mouse.slip.net>

I was referred to an article in the Nov. 1990 Worldradio. In it N6FO describes a seminar given by Jack Althouse N6NY, president and chief engineer of Palomar Engineers. Very interesting article. THAT'S where I had read about working on the dipole a few feet above ground. It can be done with the noise bridge. It will tell you if your antenna is the right length for the freq of interest. The resistance of the antenna, however, depends on the height above ground. Check it out. Thanks to the folks that replied to my inquiry. This group is where the real hams live.

Ron

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Dean Marzocca" <n2tnn@ifu.net>
Subject: [6049] QRM
Message-ID: <199612100131.UAA19121@mail.ifu.net>

Can anyone tell me why RTTY has to fly over NJ everynight at 8pm on 7.037??? And also, why does everyone tune up on the same freq at the same time?????????

Conspiracy if you ask me...

72/73, Dean, NJ, N2TNN, QRP-L # 560

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Mike Boice <kd0fx@worldnet.att.net>
Subject: [6136] QSL cards on the computer
Message-ID: <1.5.4.32.19961210213929.00667c60@postoffice.worldnet.att.net>

A while back I asked a couple questions regarding designing QSL cards on a home computer & ink jet printer. A few other folks asked me just how I was doing it, so now that I'm finally done (for now), I thought I'd throw my method of madness out to the public.

My printer isn't anything special - a 2 year old HP DeskJet 540 with color pack. I use CorelDraw 4 for Windows. Why? Because it's what I have - got it for \$25 new on CD at a software surplus show - what a bargain! I really need the manual, but from what I've figured out so far, it's pretty sweet. I tried to do this on Word, but it was much tougher to manipulate, and a true graphics program will make future customizations easier (see below). Anyway, I originally set it for a 3.5 x 5.5 page and fiddled around for days with different fonts, just what kind of info I wanted on the cards, layout, etc. For the time being, I skipped some of my fancier ideas just to get a working version done - I can always spruce it up later. This was a key point for me - being able to change my cards on a whim almost instantly and at minimal expense, something that's not quite so easy if you use the commercial printer guys. After I had designed one, I then did a "select all" and "duplicated" (Corel terms - don't know what the difference is between this and "copy" since both commands are available) the card, setting the second copy directly above the first on the page, as 2 cards will fit on an 8.5 x 11 page. I believe Corel automatically changed the page size to accomodate this.

I then went down to an office supply store and picked out a 250 pack of 110 pound card stock for \$9. I had wanted a light beige sort of color, but they were all out, so I went with a light green - still a good contrast to the black ink. At home, I printed off a test page on my ink jet printer on the green paper, and all was well. I then printed another copy off on some good quality, bright white paper and took this one back to the office supply store, and had them make 100 copies on my green paper. This ran to \$1.90. It was a lot faster & cheaper to just get copies made, rather than subject my printer to a lot of unnecessary wear and tear. Another hour or so was spent on their paper cutter trimming the cards back down to 3.5 x 5.5.

I forgot to mention that the 2 cards on the sheet were already a little different - one has my rig & antenna listed as my EMTECH NW30 and delta loop (for 30 meter QSO's), while the other has my Sierra and dipole (for 40 & 17 meter contacts). I figured since it was easy enough to change on the computer, and 2 cards were getting copied at once, I might as well make them a little "customized."

By having the basic spacing and layout already done, and since I can either print up a few at home or get any quantity (small or large) copied at the copy shop, I can easily customize the cards for changes in rigs, antennas (including ones only up for short tests), locations (maybe special cards made up - in the exact quantity I need - for FYB0?) , etc. The cost of a

relatively small number of real nice/fancy cards isn't out of reach either, including photographs of me (yikes!) or my QTH, by using the special glossy paper sold by HP and others for "premium" printing on ink jets. I think I saw this for around \$10 for 20 sheets (giving 40 cards).

Anyway, kind of long, but I get to rambling. Hope this is interesting and/or useful to someone out there.

73,
mike KD0FX
Richland WA

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: lve1@inel.gov (Larry V East)
Subject: [6107] QSL Info
Message-ID: <2.2.16.19961210172253.3a6fb4ca@eloi>

John, VE3JC, gave me the location of a great WEB site for getting QSL info for contest stations: <http://www.coredcs.com/~mtw/> Lots of other neat stuff too -- including links to about a zillion other ham related WEB sites!

Thanks, John!

72, Larry W1HUE/7 (Idaho)

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "duane" <duane@flinet.com>
Subject: [6068] radio lessons
Message-ID: <199612100340.WAA24045@shell.flinet.com>

How about one of you real tech. guys start a thread about building a radio. Start off say with a 40 meter rx. Start off by explaining the front end and the math used to build the front end, explain the why's and how's to building. Maybe one of you guys could pick a design and start from front to back explaining why a 3.5uh inductor was used, what the impedance of the inductor is at 7.1 mhz and the math used to understand it. Maybe we could all even build it as the thread continues and we could all learn more about the art of designing and building our own radios. I know it would be a long thread but I think it would be well worth it. Even I need to understand input and output impedance of Transistors and class A , B, C operations and how you know when a transistor is biased properly in one of those

class of operation. Any ways keep the design simple but usable for starters. sort of a group homebrew rig with a lot of learning going on.

Duane AB4BE

<http://www.flinet.com/~duane>

duane@flinet.com

ab4be@amsat.org

Duane AB4BE

<http://www.flinet.com/~duane>

duane@flinet.com

ab4be@amsat.org

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: Rogerio Gonzaga <gonzaga@med.up.pt>

Subject: [6084] Radio shopping at S. Francisco

Message-ID: <199612101152.MAA17352@hipocrates.med.up.pt>

Hi, fellows,

I probably will be in S. Francisco, California, by the end of January. While abroad, I generally am looking for bargains, specially morse keys, QRP radio gear (TEN-TEC, Heathkit) in working conditions, morse keys, electronic tubes (new or at least tested), morse keys, portable antenas, morse keys, kits, and morse keys, of course.

Can someone please give me a clue where in that area I could find such items?

Thanks in advance, best 72/73 de Roger, CT1ETT

Rogerio A. F. Gonzaga, MD

Surgical Professor at the Faculdade de Medicina do Porto - Portugal

Ex-Honorary Surgical Registrar at the Hammersmith Hospital - London, UK

Radio Amateur CT1ETT QTH Loc IN51re

G-QRP Club # 8673 ISWL # CT-20574

QRP-L #516

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: QRPDave@aol.com
Subject: [6141] Signal Generator
Message-ID: <961210172714_1555433899@emout04.mail.aol.com>

I enjoy building qrp rigs, and with the completion of my latest rig, a TenTec 10M Direct Conversion Receiver, I see that in all my lack of knowledge about such things, I could use a signal generator to tune the thing up? What does a second hand one run? I run on a fairly limited budget, but might be willing to buy one that would cover 80M-10M, if it were at the right price? Anyone have any thoughts? Thanks, guys--the QRP-L is my primary "Elmer" now, and it is greatly appreciated. QRPDave--KE6PUF. NorCal, CO QRP Club, Radio Adventure Soc., waiting for membership to arrive from GQRP and QRP/ARCI

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: No Data Available <earwax@indy.net>
Subject: [6101] SSB
Message-ID: <Pine.LNX.3.91.961210113418.624C-100000@trixie.qrp.com>

Thanks for any answers in advance.

Does a Kenwood TS 50, on the 10 watt setting qualify as a QRP SSB rig?

73 es etc...

Charlie, N9NVV

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: zearwd@rockdal.aud.alcatel.com (W. Dennis Zeares)
Subject: [6116] TNX Chuck
Message-ID: <9612101856.AA16989@aud.alcatel.com>

Well Said and Well Done...
Tnx Chuck.

72, Dennis K3ETS

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: John_Kirby@ATK.COM (John Kirby)
Subject: [6110] Tnx!! Chuck
Message-ID: <1996Dec10.112706.1180.196966@msm.atk.com>

..he who does the work, calls the shots...

Simple rule, works well.

TNX Chuck

72/3
John
N3AAZ

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: earlve3ab@host.igs.net
Subject: [6144] TTL CLOCK OSCillators tested
Message-ID: <199612102239.RAA19910@host.ott.igs.net>

I built a simple ttl clock transmitter using one of these clock oscillators I removed from an old computer board. I decided to experiment with the 14.318 Mhz one first since it was in the ham bands but I don't plan on doing any operating there. Imagine if it were a 14.313 Mhz oscillator! That would be even worse!!! Anyways... It is an extremely simple circuit...i used the one in the QRP Quarterly, April 1973. I used a stable 5 volt supply. The +5 volt line is keyed directly and the output from the oscillator went through a .01 uf disk capacitor and then into my RESISTIVE bridge (50 ohm load with provisions to measure power). It worked nicely and using my straight key I copied a very nice cw note on 14319.2 Khz. It was 20 over nine on my receiver. I then went searching for the second harmonic in the ten meter band or any other spurious signals. The second harmonic was about s-9 and didn't sound very nice. I thought the fundamental signal was really nice. Well..this is encouraging. I guess these little oscillators cant be too dirty, afterall, they are used as clock signals in computers. I

think it would be quite easy to filter them and use them as local osc frequencies. The ten meter module at 28.322 Mhz could be used as is. I noticed some small amount of TVI on certain channels but my tv is right at the test bench. Some filtering would be required and would do the trick. The meter on my little resistive bridge did not budge too far so now im going to build an amplifier for my meter. My scope is only 10 mhz so I cant give an accurate power reading until i modify and calibrate my bridge but the article mentions that these little transmitters put out only 50 milliwatts at the most. Maybe we can all lobby the industry to make these oscillators for the interantional qrp frequencies.. just kidding!!! 72 earl ..ps look for me during the 10 meter contest.

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Bill Meahan <www@wa8tztg.mi.org>
Subject: [6149] VFO Ramblings (LONG)
Message-ID: <32adee60.wa8tztg@wa8tztg.mi.org>

The recent thread about VFOs and the QST article on stabilizing a VFO using a (hardware) "huff-n-puff" method has gotten me dreaming about designing my own high-performance rig again. (I may never build it, but the dreaming has led to a LOT of learning which is useful in its own right!) Since the heart of any receiver is the VFO....

Could not one one design a *really* good VFO (stable, low phase noise, wide range, reproducible, even relatively *cheap*) by taking the priciples of the "huff-n-puff" design in QST and making a "few" mods like:

0) Use a PIC microcontroller instead of all those discrete logic chips. I like hardware but

1) Instead of using either a varicap OR a standard variable cap for the main tuning capacitor, use a series of switched capacitors the way the variable capacitance is handled in the LDG and some other automatic antenna tuners.

This would allow for using (very) high-Q fixed capacitors that are better than a varicap but still easily controlled by the PIC microcontroller. Of course there would be some noise during tuning as the capacitance was switched but that should disappear once tuning stopped.

2) Since the switched capacitor gives discrete steps and since it would likely be impractical to have (many) more than 8 bits worth of steps, the switched capacitor alone would likely be "less than optimal" for tuning stations, wouldn't some kind of "fine tuning" be necessary?

Aha! let's use the "huff-n-puff" "stabilization" varicap (tapped way down on the coil ala' the QST article) to do the fine tuning as well as the stabilization. Shouldn't add much phase noise for the same reasons as stated in the article.

3) Following Wayne Burdick's suggestion to a previous thread, let's use one of the PWM's in the PIC followed by an integrator for the control voltage rather than a traditional D/A -- less noise from the lack of discrete steps for the D/A output.

4) However, the fine-tuning function would likely require a shorter time constant for the intergrator following the D/A than stabilization only. No sweat - the all-hardware solution detected when tuning was going on and opened the stabilization loop entirely. In my proposal, we'd just shorten the time constant by switching a resistor in or out of the integrator (actually that's just our old friend the RC lowpass filter) instead of switching out the correction voltage entirely.

5) Since we've gone to all this trouble to get rid of the air variable, let's get rid of the slotted wheel that detects tuning too. Instead, we'll just use one of the "bi-phase" shaft encoders DigiKey sells. Those interface directly to the PIC and the pattern of signals on the *two* channels tells us which way the encoder is turning.

6) Since we now have the encoder input, running the pulses from either channel into a simple counter gives us a realative offset from wherever we started so we've now got a tuning dial!

This approach seems to me to give a reproducible computer-controlled VFO with a significant reduction, if not elimination, of the phase-noise concerns associated with conventional PLL/DDS designs.

Whatcha think folks? Did I dream up a good high-performance VFO or are there major fallacies in my thinking? Either way, let's discuss this ON THE LIST (not via private e-mail) and all learn from it. Heck, even if there are 4,267 things wrong with my approach (always a good possibility from a non-EE) the responses pointing out my mistakes will educate all of us and that's a VERY GOOD THING (TM) indeed.

72!

Bill Meahan WA8TZG

wmeahan@wa8tzg.mi.org

ARRL, IMRA, QRP-L(#117), NorCal QRP (#407), G-QRP (#8468), MI-QRP (#M1458)

All statements herein are worth exactly what you paid for them

cat: a purr bearing mammal

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Mike Boice <kd0fx@worldnet.att.net>
Subject: [6135] Voice on WARC bands?
Message-ID: <1.5.4.32.19961210213925.0066d0b4@postoffice.worldnet.att.net>

Maybe this is a dumb question for a band that's been around for over 15 years, but is voice transmission allowed by US amateurs on WARC bands? Specifically 17 meters? I had always thought that all the WARC bands were for CW only, but I continuously hear voice QSO's on my Sierra on 17 meters. I never really thought much about it, thinking they were non-US hams, or maybe not even hams. They're always in sideband, so I can't listen in on the Sierra. Well today I finally got off my doofus and turned on the Sony gc receiver and took a listen - the loudest signal was a guy in Missouri running 1500 watts.

So, is voice kosher on WARC bands (or at least some of them?) Not that I have any plans to run voice on them (or heck, even to run voice anywhere - cw rules!).

73,
mike KD0FX
Richland WA

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: WJ4PRandy@aol.com
Subject: [6137] W1AW Code Practice Info
Message-ID: <961210165934_1685812627@emout09.mail.aol.com>

I got this very prompt reply from ARRL. I suppose others got it as well but I thought I might post it for all to see.

>...
The change from 25 to 23 hrs/wk of transmitted code practice allows us to focus resources into areas of more effective support of League programs and objectives (including Morse Code). Since I am the morning operator during the week, I will also be able to provide some support (if needed) in other departments on Tuesday and Wednesday mornings.

If you feel this change deals with a softened support of the Morse Code, I can assure

you that this is not the case. The ARRL policy is clearly in support of the Morse Code requirement for HF operators. The change in the morning schedule in no way reflects any attitude change towards CW. We will continue with the 23 hrs/wk of 18 wpm code bulletins, companioned with code practices.

As you well know, we are increasing ARRL presence in Washington and on the international scene. That's where the battles over the future of Amateur Radio will take place, and that's where we must win. A small redirecting of resources will allow for us to continue to protect and defend Amateur Radio.

I can certainly appreciate your concern in this issue. Let me assure you however, that this change has not come about simply because some feel CW is a "thing of the past."

Thank you very much for writing, for your support, AND for tuning in to our bulletins and code practice!

73,

Joe, NJ1Q
W1AW Station Manager

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "John A. Evans - N3Q00" <jaevans@cos.cst.titan.com>
Subject: [6091] Wanted: KR-20A manual
Message-ID: <199612101438.JAA172485@nss2.CC.Lehigh.EDU>

Greetings,

I am looking for a manual for the Ten-Tec KR-20A keyer. Photocopy of a complete manual is fine. I picked up one at a hamfest a few years back and am wondering just what mods the previous owner made.

72, n3qoo

John A. Evans Chief System Administrator

Office: (719) 528-1800 Titan Client/Server Technologies
Fax: (719) 528-1888 1115 Elkton Dr, Suite 200
email: jaevans@cos.cst.titan.com Colorado Springs, CO 80907-3535

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Byron8LCZ@aol.com
Subject: [6040] Way Cool Mag
Message-ID: <961209191636_1187014549@emout14.mail.aol.com>

Hi gang,

In case you havent noticed, Nuts and Volts magazine is turning into a terrific part reference source. they have ads from hundreds of companies selling high tech parts, including ccd miniature cameras, servo/stepper motors and controllers, surplus quality lab instruments (H-P, Tektronics, Wavetek), rainbow kits, Alltronics, Basic Stamp applications and construction articles, ham radio swap calendar, weather maps, MCM electronics, Holography, ads and list of battery suppliers, tech arrticles by Joe Carr K4IPV, amateur robotics parts and ideas. some computer stuff, lots of parts ads and alot more.

to subscribe call 800-783-4624, cost is 19.00 a year.
nuts and volts magazine, 430 princeland court, corona, ca 91719

Interesting mag. I plan on renewing my sub.

72, Byron WA8LCZ

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [6047] Whoa! ARRL Code Practice-plenty
Message-ID: <n1361963250.6564@msmailgw1.arlut.utexas.edu>

All the CW fa-natics, read the entire ARRL letter.

It clearly stated the reason they were deleting ONLY the two morning sessions, (and thus leaving the other sessions on ALL the days, and NIGHTS of the schedule), was---surprise---they need more time for maintenance! It has been a few years since they put in all those fancy commercial state of the art shortwave transmitters, and like all hardware, they begin to take some time to be fixed from time to time. Also, severe New England weather takes its toll

on antennas, and they certainly cannot fix those at NIGHT!

Jeez! --Give the ARRL a break, I like a conspiracy theory as well as the next person, but this seems a legit scheduling change, and there is ample good reason to delete two DAY slots, for the vast majority of use of the code practice is at NIGHT. The folks around all day, are the old retired hams who probably can already do 20 wpm! :-) Or have forgotten how, and don't care anyway, [and no flames, I got my AARP card!! :-)]

I wonder if this much fuss was made when they switched from Spark to CW?? :-) And if memory serves right, I was sorry like many, when AM gave way to SSB! (Does any one remember the high level modulation of W6AKF?) Anybody on here interested in reviving some QRP AM designs for 160M or elsewhere? I have heard some beautiful AM on 160 a year or so back, but don't have a good antenna site for a 160 sky hook.

Back to regular programming as Chuck says---
72,
Stuart K5KVH

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Rogerio Gonzaga <gonzaga@med.up.pt>
Subject: [6089] Xmas greetings
Message-ID: <199612101356.0AA17762@hipocrates.med.up.pt>

Hi, fellows,

Have a nice Xmas & a Happy New Year. Later on this reflector you will receive a message related to a card I have sent to all of you and that is in card service, where the address and number of the message can be readen to have access to it.

In the case this does not work, the address is
www.netcard.com.br and the number is 61055224

Enjoy your Xmas!

72/73 de Roger, CT1ETT

Rogerio A. F. Gonzaga, MD

Surgical Professor at the Faculdade de Medicina do Porto - Portugal
Ex-Honorary Surgical Registrar at the Hammersmith Hospital - London, UK

Radio Amateur CT1ETT QTH Loc IN51re
G-QRP Club # 8673 ISWL # CT-20574 QRP-L #516

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: zearwd@rockdal.aud.alcatel.com (W. Dennis Zeares)
Subject: [6115] Zen and the FOX
Message-ID: <9612101854.AA16927@aud.alcatel.com>

It has been so long since I have actually heard a
real FOX that its like ZEN.

As part of a class at SMU, I attended a group session
at the ZEN center.... sat there and focused on a spot
on the wall for two hours and heard and said nothing....

Hey thats just like the FOX hunt....sort of... maybe a book..
Zen and the Art of QRP FOX Hinting...

72, Dennis K3ETS Dallas

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: ah231@detroit.freenet.org (Bernard F. Gaffney Jr.)
Subject: [6057] [grace@arrl.org: RE: [ethan@teleport.com: W1AW code trans]
Message-ID: <199612100238.VAA01974@detroit.freenet.org>

>From the ARRL Great Lakes director:

===== Begin forwarded message =====

From: grace@arrl.org ("Race, George,")
To: ah231@detroit.freenet.org (ah231)
Subject: RE: [ethan@teleport.com: W1AW code trans
Date: Mon, 09 Dec

Dear Bernard:

Yes, you do read it correctly. Those morning CW sessions are going to go away starting Jan. 1, 1997.

They have been some of the least listened to practice sessions. Many are not home and available to copy the CW practice and bulletins during the morning hours. Even more important to the decision I think was the consideration of propagation. There just have not been a lot of stations reporting using W1AW during any of the morning sessions. Afternoon and evening sessions, when propagation is good, will not be changed.

Maybe when the sunspot cycle gets back to a more normal situation this decision may be able to be reversed. Also this new "off air" time will give the technicians time to keep W1AW maintenance a bit more up to standards.

Something that we have been doing, for the most part, when something quit working. Much of this new time available will be used for preventative maintenance.

Thanks for your comments. I appreciate you taking the time to drop me your concerns.

73...George

From: ah231
To: wb8bgy
Subject: [ethan@teleport.com: W1AW code transmissions]
Date: Sunday, December 08, 1996 7:43PM

Is the gist of this messge correct? Morning CW on Thurs and Fri only?
What about afternoon transmissions?

72/73 de N8PVZ

---Bernard Gaffney

--

```
+++++
| Bernard F. Gaffney, Jr.  N8PVZ   WIN95 Hater #1  |
|               QRP-L #504  MI-QRP #1152          |
+++++
```

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Dale Anderson <dalea@artemis.fc.hp.com>
Subject: [6078] Re: 10 Meters Open!!!
Message-ID: <9612100623.AA19587@artemis.fc.hp.com>

Yes, 10m WAS open to the West Coast tonight from Colorado.
WA6APQ/BCN (Long Beach) es KD6UVN/BCN (Laguna Beach) were
599 at about 0600Z. I even heard FM phone traffic on 29.600!

On the other end of the scale, the 160m band was wall to wall
QSOs, both phone es CW. Was nice to hear so much activity on
so many bands.

72 de Dale, KB0VCC
Fort Collins, CO
QRP-L #91 / CQC #251

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Jim Hydzik <congress@magpage.com>
Subject: [6074] Re: 38 spc1 + 38-30 VFO? RX Design LONG
Message-ID: <199612100352.WAA24717@alaska.magpage.com>

Hey Alan,

You really know how to get the juices flowing. Lots of good ideas and you
can bet there are a lot of pizza napkins in Calif. with mods on them.

Guess I'm just a good ole VFO kinda guy. The simple way for me to build
the 38-30 VFO is to use an IC that will serve as VFO, Xtal osc, and Mixer.
Being an RF filter engineer, a 2 section bandpass filter would be used to
clean up the output and provide the necessary impedance matching. Even a
discrete transistor version would be easy, but everyone has gone on the IC
kick :) Building a stable 3 MHz vfo in a 5 sided closed tin with a little
wax thrown in should be pretty easy with the regulated 8 VDC supply already
on the 38's board.

Parts count doesn't seem to be an issue any more if the parts are pennies
a piece. It's just a couple extra line items on the P.O. to Mouser and an
extra couple seconds to put them in the bag if it is a club-kitted
operation. (my opinion)

The idea of a transverter is superb. The output level of the 38 is perfect for 'hard-driving' a mixer. Sounds like the best approach to multibanding rather than building the bandswitched version as long as the noise factor is kept low.

Yeah, got to have memories. The day the M.O. went to Mr. Cates, one went for the Atomic Keyer.

Computer control...computer box? That is a great source for a large enclosure and built-in headers. 8088 computers are typically free for the asking and blank front panels are things you trip over at hamfests. Old ethernet/video/RS-232 cards would provide BNC fittings and wiring to the outside world....Hummmmm! If you got the space it would be a candidate for the big QRP rig of the year. Just add a gutted out MFJ (or similar) keyboard keyer and you're ready to go. The large case would give you something to set your Norcal, QRP+, SLT, on.

Seriously, one of the factors that helps make these small receivers hear so well is the lack of all the mixer noise (4 mixers typ. today from JA), PLL AM and FM phase noise, and the rest of the digital crud that is squeezed into the modern xcvs. Adding anything like a digital frequency source with display will not make what is heard in the headphones sound as good as the basic rig. For a long time the Drake R-4 has wanted an outboard synthesizer to provide all band coverage, but even the Drake FS-4 makes the minimum discernable signal characteristics stink in comparison to using a crystal to add a band. Getting back on track....the rig on a card is a good one as long as the rx performance doesn't degrade. Hasn't been done lately on the cheap.

Ok, someone will say that the ICYAEWOOD can hear a sig at -130Dbm just like the NOR802040a but listen to that signal in a quiet environment on hi-end Sony (or equiv.) headphones. The clarity/purity/clean sound of the non synthesized rig is apparent. Then CW key the signal generator and listen to how much easier it is to copy the signal at that level. I've done this over a hundred times in the last ten years, even with my own IC-R9000 and the little rig always sounds better at MDS levels. I realize that the further you go south from here it is less of a problem. Solar, geomagnetic noise and earth's atmospheric rotational static levels really get bad as you head from NY-PA latitudes toward FL. By the time you get to the Carolinas, the above discourse means nothing. But get north of that line and the whole world changes at QRP levels. Down here in Delaware I can just hear the noise from the sun at sunrise on 30M. For the 8 years we lived in New Hampshire, you could use 10 meters as an alarm clock. The background noise is so low up there that the rcvr could stay on all night and you wouldn't hear a thing until the sun raised the noise floor at sunrise. (Don't try this on a vertical) The same 2 element fullsized delta

loop beam was/is used.

I know you know about these things. I hope that, as Chuck, Ron, and others have said, we have enlightened a few others on the subject. Besides, we'd be saying the same things over pizza and peanut butter stuffed shrimp.

72, Jim K3QIO Delaware (sure miss NH)

t 01:48 PM 12/9/96 -0800, you wrote:

>Jim...

> There's a question to ask about coverage and the design of a VF0.

>And that is: is it more complicated than it is worth?

>

> While I think a VF0 is a good idea, a better one might be to
>figure out a way to pull the VX0 40-50 kHz off frequency because it
>might be simpler and might require fewer parts. There might also be a
>Maybe not----but they could be both simpler and cheaper.

(snip)

>

> What Ori, AC6AN, designed is a radio he calls ''a hacker's
>radio'' -- i.e., he's inviting people to tinker with it in order to make
>changes. The collective 'WE' won't know how the mods work until someone
>tries them and writes them up. My plan is to build 3 versions of the
>38-----one for mod-tests, and the other two operational!!! I plan to put
>one of them on 30M, but the second will go either on 17m, 20m or 40m.

>

> I'm hoping someone here will have a few ideas----for the following
>'dream' mods I'd like to try (but don't know how to go about making
>them happen!!!):

>

> 1) some kind of computer interface so the 38-special could
> be mounted on a parallel or serial board, tucked
> inside a computer and controlled by the keyboard.
> I read a few months ago about computer control for
> the Ramsey 2m rigs in either CQ or QST -- it ought to
> be ''possible'' with almost any radio, shouldn't it?

>

> 2) some small RAM for the Tick keyer that allows for the
> programming of simple messages which can be
> activated and sent to the keyer by simple push-button
> switches

>

> 3) variable bandwidth crystal filter
 > 4) transverter to get the 38-special to work on 6m
 > 5) etc etc etc
 > The sky is the limit and until WE try, we won't really know what
 > is possible!
 > Best 73/72 de alan

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
 From: Bob Edwards <rbe@atlanta.com>
 Subject: [6042] Re: 38 special
 Message-ID: <32ACE8D0.6860@atlanta.com>

Alan Kaul, W6RCL wrote:

>.....The VX0 then rubbers that frequency by
 > approximately 20 kHz.....

Alan,

I seem to have missed your point. My point was; most CW operation on 30 meters is from 10.120 to 10.100, which means the VX0 pulling range mentioned will give you the whole enchilada. So why ask about other crystals ? I have built VX0s too, and on 30 meters. They did not pull as far as 20 khz because they were oscillating on xmt freq. One of the clever features of the 38 special is its high L0/VX0 freq which gives a wider khz pull range for the same percent pull.

I lack 8 states of WAS - QRP on 30, but I'm not working very hard at it either. Hope to meet you & chat on 10.116 or 10.106, soon. It's my favorite band.

Bob, 73/72

W4ED x_AE4CA nr Atlanta @EM73wt
"QRP", more from less....
 :EMPS QS0s=47 STATES=23/4 DX=??

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      /|
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From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
 From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
 Subject: [6083] Re: 38 Special Info

Message-ID: <Pine.SOL.3.94.961210064512.18439C-100000@utkux4.utcc.utk.edu>

On Mon, 9 Dec 1996, James W. Cates wrote:

>
> And now, a funny: A member asked with his order "If I add the five watt
> amplifier, can I call mine a 357 Magnum?" Well, I thought it was funny.
> But then, I do have a child-like sense of humor. (on second thought it
> IS funny!)

Jim,

Not quite perfect. Reduce the 5w to 4.4 and then call it a 44 Magnum.
With this kind of humor, we have to be talking about dum-dum bullets. Add
a certain kind of ATU and call it a Magnum PI. Guys in white coats are
coming, so I'm done.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: David.Reid@asml.nl (David Reid)
Subject: [6086] Re: 38 Special Info
Message-ID: <199612101305.0AA17407@wspub002.asml.nl>

On Mon, 9 Dec 1996, James W. Cates wrote:

> And now, a funny: A member asked with his order "If I add the five watt
> amplifier, can I call mine a 357 Magnum?" Well, I thought it was funny.
> But then, I do have a child-like sense of humor. (on second thought it
> IS funny!)

errr... I hope you all get better reports than 357...

even 4 by 4 is not so good - but workable.

dave PA/G0BZF nr.Eindhoven Holland.

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: rob3ert@juno.com (Robert G. Parks)

Subject: [6046] Re: 38 Special, keeping America strong?
Message-ID: <19961209.162926.5078.1.rob3ert@juno.com>

Doesn't sound corny to me!!! I second the motion.

Bob Parks
K6AEC (Las Vegas)
QRP-L#630
NorCal#1771

On Mon, 9 Dec 1996 13:53:10 -0500 WD6BOR@aol.com writes:

>Doug,
>
>Just a quick note to check in since I missed the last meeting. I sent
>my
>order into Jim and got a confirmation so I'm just sitting back and
>enjoying
>the wait. I have enough projects on the shelf that the 38 special will
>probably be a spring break instead of winter break one. Again, thanks
>for the
>effort and initiative to put these out. You guys and others around the
>country and the world are the best thing to happen to homebuilding and
>the
>pursuit of technical education since Heathkit went out of the kit
>business.
>I've always felt that our "hobby" as well as our schools benefit from
>a
>continued interest and participation in hands-on building and
>experimenting.
>We have taken amateur radio into the schools here in Sonoma and helped
>teachers set up stations and conduct beginning radio courses in grade
>levels
>as low as third and fourth. We've even had these kids building their
>own
>simple two transistor code practice oscillators. Not every child
>becomes an
>amateur radio operator but at least they are exposed to the "inside"
>of
>technology. Radios such as the 40-9er and Norcal 40 have sparked some
>of the
>liveliest interest, especially when I've been able to throw a wire
>over a
>tree or basketball hoop in the playground and let the kids listen to a
>cw
>signal.
>
>This started out as a simple thank-you to you and the others who

>design and
>make these projects available, but has gotten to the point that I
>think I'll
>copy this to the list with the idea that others will take their
>homebrew
>creations into the classrooms of their local schools and expose more
>youngsters to the future. We all need to do everything we can to
>interest our
>children in learning to insure their future success as well as to, as
>corny
>as it may sound, keep America strong and prosperous.
>
>Let's see what others can do with this idea.
>
>Darrel, WD6BOR
>Sonoma, CA
>
>

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [6097] Re: 40-meter rectangular loop

>From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
>In use as a low angle dx antenna, there is little to choose between the
>mid-side feed and the bottom corner feed.

Hi L.B., just a few comments based on EZNEC. EZNEC sez this rectangle fed on a side is resonant at 7.205 MHz with a feedpoint impedance of 47 ohms and a gain of 2.79dBi at TOA=21deg. Horizontal beamwidth is 2x87deg.

For bottom corner feed, it is resonant at 7.24 MHz with a feedpoint impedance of 78 ohms and a gain of 2.6dBi at TOA=30deg. Horizontal beamwidth is 2x95deg. This configuration has a very large footprint. The zero dBi point occurs at a TOA of about 11deg. The horizontal radiation pattern covers almost 190deg and the vertical radiation pattern covers almost 160deg, the large footprint that I prefer.

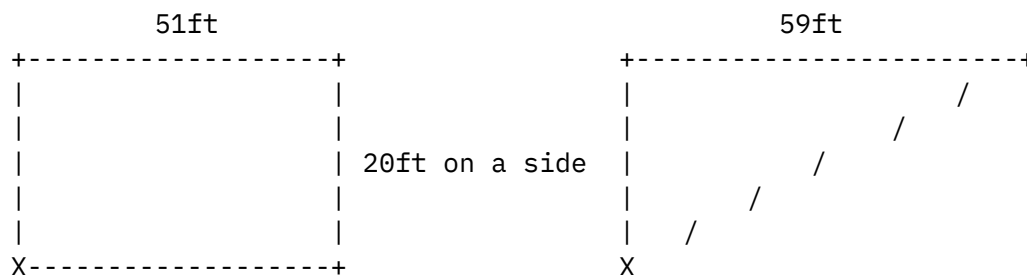
This antenna is comparable in performance to a dipole and has a few advantages.

1. Radiation is not straight up at low heights. There is a combination of useful medium and low take-off-angle radiation with a large footprint. It beats a vertical for medium take-off-angles and beats a low dipole for low take-off-angles.

2. Coax is minimized. Bottom corner feedpoint can be close to the shack in a location where a dipole cannot be centered. In this respect, it has the physical advantages of an end-fed and/or base-fed and the radiation advantages of a full-wave loop.

Give credit to Kurt Sterba for mentioning this antenna in his Worldradio column, "Aerials".

Here's the two configurations that I have tried. X is the feedpoint.



These antennas also load with a tuner and perform well on 20m,15m,10m.

73, Cecil, W6RCA, 00TC

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [6098] Re: 40m loop

>From: Clay N4AOX <wyn@worldnet.att.net>
>What shape and feed point position does one need for a single loop to
>arrive at $300+j0$ impedance at the terminals.? Clay N4AOX

Hi Clay, you probably already know the answer. A full wave loop, fed midpoint of one horizontal side with the vertical sides equal to 0.3 inches will have a feedpoint impedance of around 300 ohms. Recognize your old friend, the folded dipole, containing one wavelength of wire?

If you feed the above loop on a side, you have a shorted halfwave length of transmission line so by adjusting the form factor of the full-wave rectangular loop, one can have any resonant (purely resistive) feedpoint impedance between zero and 300 ohms.

73, Cecil, W6RCA, 00TC

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: wb8ygg@juno.com (Bradley S. Mitchell)
Subject: [6147] Re: 8044ABM chips found
Message-ID: <19961210.181541.9279.0.WB8YGG@juno.com>

Sorry, but posts like this can't go unanswered.

FYI The TiCK has a lot less current consumption than the curtis.
It has sidetone, variable speed, paddle switch via software,
tune mode, Full Iambic,
etc. And in an 8 pin pkg.

And because microchip has delayed the shipment of
their parts to us, more features might be in there before
the release!

The idle current is about a micro amp, where I think that the
Curtis chip is 40 micro amps. (40x that of the TiCK)
The TiCK is asleep all the time, except when handling a key
input or command input.

FYI. es 73 Brad WB8YGG
Embedded Research
<http://www.vivanet.com/~gmddsr>

P.S. the TiCK is 5\$ PPD (That's postage paid for the chip!)
in the Continental US.

On Tue, 10 Dec 1996 12:28:43 -0800 dgf@netcom.com (David Feldman) writes:

>I called Curtis Electro Devices in California (near sacramento) and
>found
>that they sent their remaining inventory of 8044ABM chips (now out of
>production) to MFJ. A call to MFJ produced two of the chips which are
>now
>sitting here. If you are under the impression that 8044ABM chips are
>un-
>available (as I was, not being able to find them at Mouser) you might
>want
>to give MFJ a call (starkesville, MS.; I don't know the phone # right
>now).
>
>I don't know if another dedicated-purpose keyer chip with such low
>power
>consumption will be made again, so I was happy to find them.
>
>73 Dave WB0GAZ dgf@netcom.com
>
>
>

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Ed Tanton <n4xy@avana.net>
Subject: [6063] Re: a few radio lessons
Message-ID: <3.0.32.19961209221036.0092bea0@tiger.avana.net>

At 10:07 PM 12/9/96 -0500, duane wrote:
>How about one of you real tech. guys start a threat about building a radio.
//// snip ////
I dunno Duane... we DO need more hams building stuff, but is threatening
them the right approach? I'd have to think about that!

>Duane AB4BE
><http://www.flinet.com/~duane>
>duane@flinet.com
>ab4be@amsat.org
>

72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX
189 Pioneer Trail, Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140
NORCAL#1779 NCDXF SEDXC

Life Member: ARRL AMSAT IDRA INDEXA QCWA URL: Coming Soon

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Ken Lopez <kjllopez@earthlink.net>
Subject: [6073] Re: a few radio lessons
Message-ID: <32ACE687.3DC5@earthlink.net>

Ed Tanton wrote:
>
> At 10:07 PM 12/9/96 -0500, duane wrote:
> >How about one of you real tech. guys start a threat about building a radio.
> //// snip ////
> I dunno Duane... we DO need more hams building stuff, but is threatening
> them the right approach? I'd have to think about that!
>
> Ed Tanton N4XY

Some of these designs are pretty threatening already!

Actually, Duane, this is a very interesting idea. All of the design descisions and the reasoning would take place here on the net. Guess I'd better stock up on Zip Drive disks to save it all!

73, Ken, N6TZV

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: 10-Dec-1996 0749 <randolph@asic.ENET.dec.com>
Subject: [6088] re: a few radio lessons
Message-ID: <9612101329.AA11240@us4rmc.pko.dec.com>

Duane AB4BE writes:

> How about one of you real tech. guys start a thread about building a radio.

This doesn't really meet your specs, but I've been designing a multi-band HF receiver for 6+ months now. It's a totally unproven paper design so far, and it's not really a beginner's type of project. It isn't terribly complex, though. The circuits are all fairly basic, it's just that there's a lot of them.

This RX is the fulfilment of a promise I made to myself when I became a ham: to one day design and build a decent working SSB/CW station from scratch. The original ideas for it came from the W1FB "his eminence" RX and the W7ZOI "contest grade CW station", both of which appear in the "Solid State Design for the Radio Amateur" book. No oddball components are used. I've been updating and enhancing it as I learn more about design. The block diagram is at rev. 7!

The current design covers 160m-17m, dual conversion (32 MHz 1st IF, 12 MHz 2nd IF). The plan was to have about 3 selectable band modules, like those VHF/UHF mobile radios, but I haven't really worked out the details of the band switching yet.

No really fancy math involved... if you can deal with $X_c = 1 / 2 \pi f C$, then you can understand this receiver.

So what do you think... want to read about it in detail?

=====
Tom Randolph N100Q NE-QRP 419 QRP-L 87 ARRL randolph@asic.enet.dec.com
=====

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: Ed Tanton <n4xy@avana.net>
Subject: [6093] re: a few radio lessons
Message-ID: <3.0.32.19961210100643.00923410@tiger.avana.net>

I'd sure enjoy it Tom!

>So what do you think... want to read about it in detail?

>

>=====

===

>Tom Randolph N100Q NE-QRP 419 QRP-L 87 ARRL
randolph@asic.enet.dec.com

>=====

===

>

>

>

72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX
189 Pioneer Trail, Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140
NORCAL#1779 NCDXF SEDXC

Life Member: ARRL AMSAT IDRA INDEXA QCWA URL: Coming Soon

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: GMPT <hapence@erols.com>
Subject: [6096] Re: a few radio lessons
Message-ID: <2.2.16.19961210111729.220fbc9c@pop.erols.com>

Duane:

 Sounds great! Perhaps a "Rig of the Month" approach w/mods added
later. Might even have some finished rigs show up at FDIIM.
 GL getting such a fine learning project started.

72 y Paz Grover KQ4AL Occoquan, VA 38 41 29n 77 18 45W FM18iq

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Dan Hogan <dhhogan@lightside.com>

Subject: [6112] Re: a few radio lessons
Message-ID: <3.0.16.19961210100609.2e5f4da6@mail.lightside.com>

I'm all for the lessons. When do we start?

72/73

Dan Hogan WA6PBY QRP-L #558, CQC #340, NorCal #1806, ARRL
dhhogan@lightside.com Lat. 34d 03.5'N Lon. 117d 56.0'W
Grid: OM84wc

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: AE0Q / V31RY <v31ry@ix.netcom.com>
Subject: [6128] Re: a few radio lessons
Message-ID: <2.2.16.19961210132518.3e0723d4@popd.ix.netcom.com>

At 22:07 09-12-96 -0500, you wrote:

>How about one of you real tech. guys start a thread about building a radio.
>start off say with a 40 meter rx start off by explaining the front end and
>the math used to build the front end, explain the why's and how's to
>building. maybe one of you guys could pick a design and start from front to
>back

Paul NA5N has already done just that!! It was first run as a multi-part
article in the Colo QRP Club newsletter, the Low Down, and the whole thing
is now included in his book,

The Electronic Data Book for Homebrewers and QRPers

available from Five Watt Press.. You can get info about ordering a copy
from qrpbook@aol.com..

I have no connection to the publisher, but it sure is a handy reference
book for ALL component data, even lab tests of popular QRP rigs..

73 -- Glenn

Duct Tape is like the Force: It has a light side, and a dark side,
and it holds the Universe together.

AE0Q / V31RY ex: GM5BKC, ZB2WZ, SV0WY, WA0VPK
v31ry@ix.netcom.com -- ARRL LM, QCWA LM, NCVA --

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Ken Lopez <kjlopez@earthlink.net>
Subject: [6131] Re: a few radio lessons
Message-ID: <32ADB1A6.3EB1@earthlink.net>

>
> So what do you think... want to read about it in detail?
>
> =====
> Tom Randolph N100Q NE-QRP 419 QRP-L 87 ARRL randolph@asic.enet.dec.com
> =====

You bet Tom. You are doing something that I also promised myself. I would love to hear about it, and hear the comments from the more experienced designers in the group. We would all learn from that...

73, Ken, N6TZV

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Marcus Leatham" <leatham@nortel.ca>
Subject: [6100] Re: ANC-4 Preliminary report (long)
Message-ID: <199612101641.LAA207165@nss2.CC.Lehigh.EDU>

In message "Re: ANC-4 Preliminary report (long)",
'stan@cruzio.com' writes:

>
>Because the rx ant is split into 2 inputs, expect about a 3 db rx only loss.
>Thats not bad if your lowering noise 10-50 db (or whatever the loss reduction
>will be).
>
>Stan N6XU (ex n6ulu)
>

I wonder how long it will be until the rig manufacturers build antenna noise cancellers right into the rig? Lots of rigs already have a connector and switch for A/B receive antennas. All that is needed is to provide an A+B position (summing the two signals), with amplitude and phase adjustments on the 'B' input.

Another scathingly brilliant idea I won't get paid for.

Regards,
Marcus, KR5N

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: rhight@primenet.com (Roger Hightower)
Subject: [6039] Re: ARRL Told to Keep the Code
Message-ID: <199612100017.RAA20524@primenet.com>

At 10:14 AM 12/9/96 -0700, Larry V East wrote:
>The following from Amateur Radio Newsline #1008 6 Dec 1996 (Copyright by
>Amateur Radio Newsline):

>

>-----

>

> HAMS WANT MORSE CODE

>

> The numbers are in and by a wide margin hams say that they want the
> Morse code to stay.

>

(snip)

HOORAY!!!!!!

72/73 de Roger N7KT Mesa, AZ Grid DM43cj

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Richard Wilkerson <richqrp@pacbell.net>
Subject: [6045] Re: ARRL Told to Keep the Code
Message-ID: <32ACB4A3.5DE1@pacbell.net>

Roger Hightower wrote:

>

> At 10:14 AM 12/9/96 -0700, Larry V East wrote:

> >The following from Amateur Radio Newsline #1008 6 Dec 1996 (Copyright by
> >Amateur Radio Newsline):

> >

> >-----

> >

> > HAMS WANT MORSE CODE
> >
> > The numbers are in and by a wide margin hams say that they want the
> > Morse code to stay.
> >
> (snip)
>
> HOORAY!!!!!!
>
> 72/73 de Roger N7KT Mesa, AZ Grid DM43cj
>
> NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383
>
>.
This is all I want for Christmas!!!!!!!!!!!!Hmmm...maybe the arrl isnt so
bad after all?...We will see!
--
Rich Wilkerson WD6FDD, Santee, Ca.
NorCal, ARCI, Qrp-L, E.C.R.A.
scQRPions
*****Happy Holidays*****

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: rright@primenet.com (Roger Hightower)
Subject: [6132] Re: building a HW-8 need tips
Message-ID: <199612102041.NAA20346@primenet.com>

At 03:30 PM 12/10/96 -0500, Scott Bauer wrote:

> Hello Ladies and Gentlemens,
>
> As I write this, I have an unbuilt HW-8 coming to me in the mail.
> I have thought of a question before I get started:
>
> Can some of the parts go bad with time? This may sound kinda silly,
>but I do know that some materials deteriorate over the years.
> Does anyone know what I might want to look for, or replace from the
>get go?

One thing you can expect for sure - component leads will have some oxidation
on them.
Check them out and clean carefully...some of this stuff can prevent good
solder connections.

Good luck.

72/73 de Roger N7KT Mesa, AZ Grid DM43cj

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Ed Tanton <n4xy@avana.net>
Subject: [6059] Re: Computer power supplies
Message-ID: <3.0.32.19961209215143.00923b00@tiger.avana.net>

Hi Brian... not to put a damper on your idea but there are a couple of problems I can think of right off... all related to the power supply being a switching type power supply.

1. Most switchers are happier at consistent loads, and do not do well with very little load;
2. I do not believe most PC-type switchers will operate with only one of the voltages loaded: they are actually very good about shutting down under abnormal conditions. You'd have to try this.
3. Most switching power supplies require serious bypassing/filtering to remove the switching noise. I am certain you would be disappointed about the amount of noise.
4. 'GP' may stand for something like Ground Point... measure its resistance to the black wires or (if that = infinity) check it to ground. (Power supply UNPLUGGED!!!) It could also be... well, I guess the best thing is to find which-if any-wires give zero ohms to it with your DMM on its lowest resistance scale-even then it could be several turns away-but that ought to get you close.

BOTTOM LINE: I would advise against it. Switching supplies are not very good around RF, especially sensitive rcvrs-much less powering them. Switchers require SOME load, and do not like to operate over wide output current ranges. Finally, the built-in fault protection in most PC supplies may very well give you problems.

Sorry I could not be more positive. Season's Greetings!

At 05:03 PM 12/9/96 -0600, Brian.Buydens@usask.ca wrote:

>I recently acquired a computer power supply because it had an noisy fan
>and the computer was still under warranty and it was cheaper to replace
>the power supply than to fix the fan.
>
>It looks like a good power supply for QRP. It puts out -5V +5V -12V and
>+12V at various amp ratings. There is also a wire labeled G.P.
>

>Is there any reason why I could not use such a power supply for ham work?
>Also what does G.P. stand for?

>

>Thanks in advance.

>

>Brian.

>

>+-----+
>| Brian Buydens, Computing Services, University of Saskatchewan |
>| email: Brian.Buydens@usask.ca |
>| VE5RDV |

>+-----+
>| A Thought for Christmas: |
>| The only decent thing to do behind someone's back is pat it! |
>+-----+

>

>

>

>

72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX
189 Pioneer Trail, Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140
NORCAL#1779 NCDXF SEDXC

Life Member: ARRL AMSAT IDRA INDEXA QCWA URL: Coming Soon

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: gsurrency@juno.com (Gary L Surrency)
Subject: [6105] Re: Computer power supplies (LONG)
Message-ID: <19961210.100651.9742.1.gsurrency@juno.com>

Bryan and the group,

I get these things all the time. They aren't good for QRP radios, because they require a certain minimum load on one or all outputs to prevent the switching transistors from committing suicide. Some manufacturers specify specify 10% of rated load on each output. They were designed for a continuous, constant load.

What happens is the conduction angle of the PCM (Pulse Code Modulated)

switch becomes so short at low or no output current, that the induced voltage across the transformer rises so high it destroys the junction of the switching transistors. There are snubbing circuits across the input winding and the output windings to absorb some of this,, but they can only take so much of the induced transients before the power transistors Vce and Vcb junctions breakdown and short.

The switchers are usually pretty rugged power transistors with Ic current ratings of 12-20 amperes and Vce breakdown of 500-800 Vdc. They don't have very high Ft ratings, however, so they aren't suitable for PA stages of RF transmitters. They are designed for high voltage, high current, and fast turn-on / turn-off transitions. The AC line is directly rectified and doubled to about 330 Vdc, and then alternately switched in a push-pull arrangement across the high frequency (~25-75Khz) transformer winding. A small high voltage capacitor of about 1-2 ufd is in series with the primary, so it charges and discharges into the primary as the polarity reverses.

The GP signal you mentioned, might be the PG, power good signal lead that is used to inform the motherboard of impending power failure.

If you play around with one of these things, be certain to use every safety precaution, because the large voltage and energy storage of the line-rectified high voltage DC supply can kill you. I usually look for obvious problems that are easily repaired, and if it appears to be beyond repair, I just cannibalize them for parts. If it's real dirty, spray it with Fantastik or 409 cleaner and allow to soak a few minutes before hosing it out with a water nozzle. Then use compressed air or just shake it out and allow to dry before stripping the parts.

BTW, I have rescued a lot of noisy fans, by just taking them apart, cleaning, and re-lubricating the shaft / bearings. Seems the older and better quality fans had one or two ball bearings, but recent cheap units are using brass bushings and grease that dries out and hardens. A thorough cleaning, air blast, and good quality oil will coax more life from the fans that aren't too worn out.

There are many small diodes of the 1N4148 type, several high voltage rectifiers in the AC to DC rectifier circuit, maybe a bridge rectifier, lots of small transistors of the 2SC945 NPN type, sometimes some good PNP 2SA733 transistors. I occasionally find nice 2N3904s or even 2N2222s, so they are worth a look. There are the high voltage switcher transistors of course, and lots of small electrolytic and ceramic disc and some mylar capacitors. They are a good source for 2 watt 100 ohm metal oxide power resistors to make dummy loads. Several of these resistors can be arranged to achieve a 50 or 300 ohm load. I usually pull out all the little 1/4 resistors for the junk box.

There are always some nice heat sinks in these too. And sometimes a smaller power transformer of 25-28Vct and 100-200 ma for the control circuits. These could be setup to power a small battery charger or other light load. There is always a three terminal regulator inside, but it is a LM7905 type, -5 v unit.

Don't overlook the large electrolytics on the +/- 5volt and +/- 12 volt outputs. They are rated from 10 to 16 to 25 volts, and are good for small linear DC supplies you can build. I also posted on this list some time back a design for a very simple regulated 13.8Vdc supply using only 4 parts: transformer (25.2Vct), rectifier, filter capacitor (4700ufd 25v), and 3-terminal 13.8Vdc IC regulator (an NTE934).

The large schottky center-tapped rectifiers are ideal for high current, low voltage purposes since they have very little Vf drop, and are very fast. The only limitation is the relatively low PIV rating of 45-50 volts. There are also discrete fast recovery silicon rectifiers for the +/-12 supplies that have current ratings of 1-3 amps that have better PIV ratings of 200-1000 volts.

A virtual gold mine of parts is in these things, if you take the time to pull them out. I have also found good components in the old, worn out fans, so don't overlook the few parts in them. They have yielded several small caps, resistors, 1N4001 diode, and a switching MOSFET or transistor or two. The power transformers can be unwound to yield some nice enameled wire for coil winding, too.

About all I have left when I finish gutting one of these things, is the metal case and PCB. The cases I usually send to the recycle trash bins, and I save a few of the disk drive cables for a source of 16-18 gauge hookup wire.

If you could utilize one of these to power a QRP rig, you wouldn't like all the switching hash they'd produce in your receiver! And a 150-230 watt DC supply is way too large for the typical QRP radio. There are some new switching DC supplies from Yaesu and Ten-Tec and other ham manufacturers, but they are specifically designed for larger ham gear. I still wonder though, how "clean" their DC output is, and how free of switching noise they are. Better to build a small linear supply of junk parts for lil QRP rigs. :-)

Once again, use GREAT caution when opening one of these supplies up, especially if you decide to try and repair it. There are bleeder resistors across the large 200-470ufd 200v electrolytics, but they are 100k-180k, so it takes a while to bleed down the high voltage. Never depend on a bleeder resistor anyway!

No Fox here last night. Band was long skip and noisy again. My headache caused me to bail out early, too.

72,

Gary Surrency AB7MY
S&S TAC-1 and ARK30
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "\"W. Kimura\"." <W.Kimura@valley.net>
Subject: [6050] re: contest
Message-ID: <199612100143.UAA10197@dartvax.dartmouth.edu>

Since part of cw is communication and it's hard to have fun communicating when you can't follow the conversation, how about a modified SKN format?

Everybody works everyone who calls or answers at the slower of the caller's or the answerer's speed.

And maybe no contact credit without 100% copy (no fills) for both the caller and the answerer.

Kim Kimura N1MVU

(sorry no long list of numbers or credits)

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: aa8vn <aa8vn@tir.com>
Subject: [6061] Re: Copyrights
Message-ID: <32ACD3DD.343A@tir.com>

I do not specialize in copyright law but if I remember from my copyright class in law school (long, long, time ago, in a galaxy far away) if you publish your words(internet, for example) without copyright you lose your right to claim copyright protection. Notice to world is use c in circle or the the word copyright to give notice to those who read your original work that the work has been copyrighted. For example "Copyright C 1992, 1995" is notice. Federal law has severe penalties for unauthorized use.

72, Frank W8XI (licensed to practice law in Michigan and Federal Court,

Eastern District of Michigan)

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Alan Kaul <kaul@netcom.com>
Subject: [6075] Re: Copyrights
Message-ID: <Pine.3.89.9612092011.A21769-01000000@netcom12>

Check the 38-Special Article by Ori, AC6AN, on the Norcal Website. Ori specifically reserved some rights for himself when he wrote the item for Norcal. And in doing so, he gave only limited permission to publish.

I believe that establishes that his work is not in the public domain.

And while he might not have used a little 'c' in a circle, I believe his notification serves just as well.

73/72 de alan

[<Alan Kaul, W6RCL>] kaul@netcom.com

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [6117] Re: Copyrights
Message-ID: <199612101926.NAA30858@multi13.netcomi.com>

Far removed from QRP. Press delete now if not interested.

Frank --

I am not a lawyer, but a P.E. does have need for some legal knowledge. I rechecked my usual references for copyrights and patents (Dorr & Munich, "Protecting Trade Secrets, Patents, Copyrights, and Trademarks", and Foster & Shook, "Patents, Copyrights, and Trademarks"). Prior to the US entering into the Berne Convention which more closely aligned US law with international agreements, and its implementation in 1989, if you failed to include copyright notice in your published work, you abandoned your copyright. After that date, you no longer need to include a notice to retain copyrights. It does, however, serve to inform a copier of the author's intentions and "deprives him of the defense of innocent infringement" (Dorr & Munich). Interestingly, publishing his work on the internet grants stronger protection than not publishing it.

Unfortunately, the ease with which any person can publish and reproduce works on the internet has created a whole bunch of publishers unfamiliar with copyright law. We need to remember that, irrespective of rules and laws, it is our ethical duty to refrain from stealing or abetting others in stealing a person's physical or intellectual property.

Mike K1MG

Licensed to practice engineering in the state of California and qualified to serve as expert witness in related legal matters. Two patents granted, six pending, numerous copyrights. Not licensed to practice law or render legal opinion in any state or country.

> From: aa8vn <aa8vn@tir.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: Re: Copyrights
> Date: Monday, December 09, 1996 7:07 PM
>
> I do not specialize in copyright law but if the I remember from my
> copyright class in law school (long, long, time ago, in a galaxy far
> away) if you publish your words(internet, for example) without copyright
> you lose your right to claim copyright protection. Notice to world is
> use c in circle or the the word copyright to give notice to those who
> read your original work that the work has been copyrighted.
> For example "Copyright C 1992, 1995" is notice. Federal law has severe
> penalties for unauthorized use.
>
> 72, Frank W8XI (licensed to practice law in Michigan and Federal Court,
> Eastern District of Michigan)
>

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
Subject: [6065] Re: FS misc superfluous stuff
Message-ID: <Pine.GS0.3.93.961209222234.6266B-100000@destrier.acsu.buffalo.edu>

The VTVM and High voltage probe have been sold.

73,

Jim N2GO

The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
jskalski@acsu.Buffalo.EDU

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
Subject: [6126] Re: FS misc superfluous stuff
Message-ID: <Pine.GS0.3.93.961210150900.16848C-100000@autarch.acsu.buffalo.edu>

Boy I "had" a lot of stuff (a lot of mail also :-)

all has been spoken for except:

2M amp
Wyse dumb (?) terminal
HF2V vertical (has to be a local pickup, sorry)

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
Life member ARRL
jskalski@acsu.Buffalo.EDU

On Mon, 9 Dec 1996, J. Skalski wrote:

> Boy do I have a lot of stuff....
>
> Eico model 710 Grid dip meter/coils \$22
>
> Heathkit Bench model VTVM IM-5228 built a few months ago (really)
> I got it partially assembled and finished it
> looks like new with probes \$28
>
> Heath High voltage probe (never used) model IMA-100-11 \$15
> (with VTVM both \$40)
>
> Tuner parts from collins 180L3 tuner 1000pf vac variable, roller inductors
> one 3x5" tape type, the other 1.5x2" coil type roller
> these parts are motor driven and run off of 12-28vdc
> instructions for making toggle switch controlled antenna tuner included

> all for \$65 (my cost)
 >
 > two vacuum relays one Jennings RJ1A QSK type for TITAN/ Ampsupply etc
 > another larger for ? both \$40 (the RJ1A lists for \$120)
 >
 > Super CMOS III keyer built, no case includes push buttons to match KC2
 > speed pot/knob RS piezo speaker mod (low current) , jacks for paddle in
 > and transmitter out. \$58 shipped
 >
 > Kenwood TS700A 2m multimode with mic, ac cord, manual and copy of shop
 > manual and cushcraft 20 element twist
 > all \$250
 >
 > Kenwood 241A 2m FM 5w/50w with mic and manual and mobile bracket \$210
 >
 > 2m fm amp for handheld 2w in 30w+ out \$40
 >
 > Butternut HF2V (needs 1.25"OD 1.125"ID X 18" base section available at
 > hardware store Pick up \$25. (not new) with manual
 >
 > AST computer 386-33 has 1.4meg floppy ide 60 meg vga on board /case
 > power cord 0kram \$20
 >
 > WYSE model #30 dumb terminal with keyboard excellent CRT could be used
 > for packet \$15
 >
 > please address complaints to my office manager :-)
 >
 > anyway ...most of it is qrp. :-)
 >
 >
 > 73,
 >
 >
 > Jim N2GO
 > The Buffalo QRP CONNECTION
 > ARCI #9013 QRP-L #381
 > jskalski@acsu.Buffalo.EDU
 >
 >
 >
 >

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
 From: "John Shuster" <jshuster@ix.netcom.com>
 Subject: [6099] Re: FS: Kenwood R-2000
 Message-ID: <199612101636.IAA11388@dfw-ix4.ix.netcom.com>

R-2000 is sold! Thanks to all who responded.

John

++++
Father John Shuster, Married Roman Catholic Priest jshuster@ix.netcom.com
Need A Priest? Rent-A-Priest! 1-800-PRIEST-9 A Free Referral Service
At the foot of the Olympics in little Port Orchard, WA
K7MP ARCI 8951 QRP-L 554 ARS 36 NW QRP 346 WWDXC ARRL
++++

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Dan Hogan <dhhogan@lightside.com>
Subject: [6043] Re: Fw: What we can talk about
Message-ID: <3.0.16.19961209141329.2adf813c@mail.lightside.com>

I don't post much but I SURE like to read all that's said on the list.

Dan Hogan
West Covina, CA
dhhogan@lightside.com

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Dale LeDoux <dledoux@laci.net>
Subject: [6066] Re: Fw: What we can talk about
Message-ID: <1.5.4.16.19961209213055.2127278c@laci.net>

At 16:44 12/9/96 -0800, Dan wrote:

>I don't post much but I SURE like to read all that's said on the list.

>

>

>

>Dan Hogan

> West Covina, CA

> dhhogan@lightside.com

>

My sentiments also. I read a lot of stuff concerning ham radio, but this list is really the only place that talks about how much fun it is to operate, to chase, to experiment, to try, to fail, to try again...

In addition to that, there's a great variety of technical verbiage to satisfy my technical side, and there's poetry (in a wierd sort of sense) and history (how I became a ham).

Basically, this is a good place to have fun with ham radio. almost too much fun. I should be operating (as soon as I find a place to set the Sierra up semi-permanently indoors...)

72-

Dale LeDoux
Sulphur, Louisiana
Bath Electrical Systems
Power Specialists -- 480 V to 230 KV
KD5QI -- QRP-L #602

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: "Robert D. Haslach" <rhaslach@CapAccess.org>
Subject: [6054] Re: HALP... ME. i'M GOING PORTABLE QRP
Message-ID: <Pine.SUN.3.91-FP.961209212206.23384B-100000@cap1.capaccess.org>

Boy, are you lucky! The Outer Banks (usually so-called on the North Carolina coast) are very nice as a QTH and as a vacation spot. Make a vertical from an extendable paint pole (20-25\$) and load it up. Stick it in the sand and take advantage of that wonderful salt water layer beneath. You ought to be really cooking! Other wise, just make a 40 m loop and sling it around the trees and shrubs. Unlike the rocky Maine coast (and the iron-bound Adirondacks and similar eastern mountains), the Outer Banks will be QRP friendly.
(Envy is the word here in WDC!)

Regards, N3FRT
Robert D. Haslach
Bye

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Philip Karras <ke3fl@access.digex.net>
Subject: [6106] Re: Ham Musicians
Message-ID: <Pine.SUN.3.94.961210122418.23240B-100000@access4.digex.net>

>>Has anyone noticed a correlation between
>>Mathematics, Music and code proficiency?

>Yes. They all take practice. Other than that, nothing.

I am not a professional musician, one could say that I use math professionally since I work in physics/engineering. I have also learned to play the flute, trumpet, and guitar. I have performed for \$ on the guitar, solo and in groups. I agree with the statement that all these things take practice, but add dedication. But more than that I believe that it has been scientifically proven that exposing children to music at an early age enhances their mathematics ability. (I read the study in Science News Magazine a few months back.) So, I think the possibility exists that music also helps with the code. I learned it at age 42 in two weeks, passed Novice after four, 13WPM after two months and 20 WPM after another four.

Perhaps the musicians among us have the advantage because they HAVE to continue to practice, and learn new music and so they are use to practice. So many children seem to think everything should come easy and if it doesn't it's either not worth doing, or "I can't do it, I don't have that talent...". Both math and music often fall into this category, as does learning the code.

Keep at it, try exercising your body and brain before a code session. Read QST December page 19, Bill WA4SDV talks about running & learning the code. There have been numerous studies on learning and exercise. There is a documented relation between them. If for no other reason than it increases blood flow to the brain, and relaxes you both physically and mentally.

You think learning code is difficult? Try also picking up an instrument if you've never done it. You'll be using both hands, perhaps your mouth/voice, your ears, eyes, and brain. For code we generally use only one hand, our ears, and we try to get our brain out of the loop altogether.

Please excuse the bandwidth.

72 & 73 de KE3FL/Phil
:-)

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Patrick Taber <ptaber@logicraft.com>
Subject: [6127] Re: Ham Musicians
Message-ID: <1.5.4.32.19961210201533.0096329c@freebird>

>And then there's HIW for the 1812 overture__

Cool -- and SS2 for the William Tell Overture?

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: n1list@netcom.com (Michael L. Ardai)
Subject: [6125] Re: Junior possibilities
Message-ID: <199612101959.LAA06129@netcom5.netcom.com>

(Just an aside...)

>the +ve connection is usually a)red b)blue,c) green, or d)black)

Careful with that one. For DC, it is (a). For phones, (b).
For house wiring, the hot wire is (d) or (d and a) for multi-phase.
And in some imported consumer electronics, I've seen black + and red -.

Best to use a meter and be sure.

73,
/mike

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Patrick Taber <ptaber@logicraft.com>
Subject: [6087] Re: Miscellaneous Ramblings
Message-ID: <1.5.4.32.19961210132501.009611a8@freebird>

>The reduction of W1AW code practices broadcasts may not have the sinister
>implications some are happy to attribute to the League's motives. It may
>simply be an issue of reduced funds. While the W1AW operation is largely
>automated, it still requires an operator be on duty while the station is on
>the air. Perhaps the League feels the cost savings realized by not having
>an operator there two mornings each week is worth the reduction in service.

But I *am* a member of the League and reasonably active. "The League" after all *is* its members. W1AW operation is one of the core services of the League. Shouldn't such a change get put to the membership? I never saw anything asking how many members would support a reduction in the W1AW schedule to cover a shortfall in funds.

Someone said the reduction was so they could do maintenance. This is not true. They say they will do maintenance because there is a reduction, not the other way around.

I received a message from W1AW's head operator (I fire a wide pattern) in response to my own message about the reduction. He mentioned that it would ease his schedule, that it would make maintenance easier, that it saves resources that are better spent lobbying Washington and so on. In short, he does not say that there is no money or no time, he says the money and the time are better spent elsewhere. As an ARRL member, I disagree. But nobody asked. So I'm telling them, and I encourage anyone who feels one way or the other to tell them too.

There are certain things all members pay the ARRL's bills to get -- DXCC, the QSL buro and W1AW are, I think cornerstones of the ARRL (three corners? The fourth one is "everything else".) Decisions affecting these things should not be unilateral.

If they didn't want to poll the membership going in, they should at least get the sense of the membership now.

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Bill Myers <bmyers@destin.nfds.net>
Subject: [6056] Re: Novice Fox Report
Message-ID: <1.5.4.16.19961209203534.2377dcf0@destin.nfds.net>

At 08:59 PM 12/9/96 -0500, Timothy R. Gordish wrote:

>Good night for Canadians! They accounted for about 2/5ths of my contacts.
>These are my first international DX, so expect a QSL card. Unfortunately I
>didn't get out very well even though I went through all the trouble of
>putting up a 40 meter Dipole/V. Here is my log.

>Thanks to all that made contacts or tried without success. Maybe
>conditions will be better next time.

Tim,

I listened very closely for you, but you never made it here to my part of Florida.

I was on 7108 about 30-35 minutes before you were scheduled to start and had a nice chat with a station in Texas though, so the night wasn't a total loss.

One "normal" QSO (who couldn't believe I was so loud with ONLY 4 watts) and no foxii...

72

--

Bill Myers KK4KF Grid - EM60rk
FISTS#2390 QRP-L#755 ARCI#9282 scQRP#42 CQC#386
Snail Mail P. O. Box 178 Shalimar, FL 32579
e-mail <bmyers@destin.nfds.net>
homepage <http://destin.nfds.net/~bmyers/>
 (Reptiles/Emergency Services/Amateur Radio)
CHECK OUT THE FISTS INTERNATIONAL CW CLUB U. S. HOMEPAGE
<http://n9nvv.qrp.com/~fists> (That's N 9 N V V)

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: n3wxi@sgi.net
Subject: [6041] Re: Novice/Tech Foxes Upgrading into Extinction
Message-ID: <199612100023.TAA22001@orion.bv.sgi.net>

At 02:34 PM 12/9/96 -0700, you wrote:

>
>Hmmm. Minor crisis brewing - two Novice/Tech Foxes
>passed the 13wpm code test last week (Barry WD4MSM
>and ScQRPion Tim KB9LGJ). And Tim got his General
>in the process.
>

Congrats Barry and Tim. Nice going guys.
Enjoy your new privileges and see you on the bands.

George (N3WXI)
Pittsburgh, PA.
QRP-L#440

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
Subject: [6103] Re: Palomar Noise Bridge
Message-ID: <1996Dec10.115825-0500@[130.113.234.7]>

Ron Giuntini referred to an article about tuning a low dipole by using a noise bridge.

I think the noise bridge is one VERY useful instrument; hams seem to prefer an SWR meter instead. The noise bridge is a good deal more versatile, and (within a limited range) tells you your antenna's reactive and resistive impedance. A good deal cheaper than a digital antenna analyser.

A noise bridge can be used to adjust an antenna tuner, without radiating an interfering signal (actually, a very small one).

Guess the downside is that its a little difficult to use, with two controls that need to be diddled to get the null that indicates when the bridge is balanced. Any convenient receiver is connected to the noise bridge as the null indicator. The two controls are adjusted to minimize (null) the signal level heard in the receiver. Once a null has been obtained, the reactive and resistive components are read from calibration scales on the two controls.

The signal source is a wideband noise generator (included inside the bridge), covering the whole 1 - 30 Mhz. range.
Most bridges can operate from a 9v battery, making them quite portable.

Construction articles have been in the Handbook for years. Circuitry is quite simple and inexpensive: the variable resistor and variable capacitor are the two most expensive items. I'd say its about as complex as a QRP wattmeter of the OHR class. A good project for a starting homebrewer.

Palomar Engineering also make a commercial version. (no association/recommendation here).

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: k7yha@juno.com (Richard H. Arland)
Subject: [6058] Re: QRM
Message-ID: <19961210.025159.4423.4.k7yha@juno.com>

On Mon, 9 Dec 1996 20:22:11 -0500 "Dean Marzocca" <n2tnn@ifu.net> writes:
>Can anyone tell me why RTTY has to fly over NJ everynight
>at 8pm on 7.037??? And also, why does everyone tune up on
>the same freq at the same time?????????

It's those darned "Data-Dinks", Dean. They are left alone of a frequency at dusk and by dawn they multiplied again! It's getting so we might start seriously thinking about moving the QRP stateside frequency down to 7030 where the Blokes live!

>Conspiracy if you ask me...

Not that I BELIEVE in the black helicopter theory, BUT, you may be on to something, here. Actually, I get very frustrated by all the Data-Dink 'BRRRAAAAAATTTTTTing" on the INTERNATIONALLY publicized QRP calling frequency, especially during QRP contests. You just can't get away from them. There sure is enough room on 40 for everyone, and the Data-Dinks could be "nice guys" and move off, but don't hold your breath. He who has the biggest signal owns the band!

73 rich K7SZ

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Peter Barville <peter@barville.demon.co.uk>
Subject: [6119] Re: QRM
Message-ID: <0DwFHCAODYryEwPv@barville.demon.co.uk>

In article <19961210.025159.4423.4.k7yha@juno.com>, "Richard H. Arland" <k7yha@juno.com> writes

>

>On Mon, 9 Dec 1996 20:22:11 -0500 "Dean Marzocca" <n2tnn@ifu.net> writes:

>>Can anyone tell me why RTTY has to fly over NJ everynight

>>at 8pm on 7.037??? And also, why does everyone tune up on

>>the same freq at the same time?????????

>

>It's those darned "Data-Dinks", Dean. They are left alone of a frequency
>at dusk and by dawn they multiplied again! It's getting so we might
>start seriously thinking about moving the QRP stateside frequency down
>to 7030 where the Blokes live!

Don't get too excited .. over here in Eu even 7030 tends to be clobbered by Data-Dinks. Mind you, we have to contend with a much smaller band than you lucky chaps over there!

72

--

Peter G3XJS

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: Dan Hogan <dhhogan@lightside.com>
Subject: [6108] Re: VF0s
Message-ID: <3.0.16.19961210092536.232f146c@mail.lightside.com>

Thanks to all on the Communications Quarterly and 10m Rigs info.

All requests are in my file.

72/73

Dan Hogan WA6PBY QRP-L #558, CQC #340, NorCal #1806, ARRL
dhhogan@lightside.com Lat. 34d 03.5'N Lon. 117d 56.0'W
Grid: OM84wc

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [6139] Re: Voice on WARC bands?
Message-ID: <199612102158.VAA11714@chuck.dallas.sgi.com>

30M 10.100 to 10.150MHz CW and Data only 200W max

17M 18.068 to 18.168MHz

18.068 to 18.110 CW and Data only
18.110 to 18.168 CW, phone and image

12M 24.890 to 24.990MHz

24.890 to 24.930 CW and Data only
24.930 to 24.990 CW, phone and image

So phone is allowed on 17M and 12M.

This from the ARRL handbook(s).

dit dit

SIG

Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50
EMPS QS0s=109 STATES(w/c)=34/2 DX=0

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996
From: Kevin Muenzler <muenzlerk@uthscsa.edu>
Subject: [6140] RE: Voice on WARC bands?
Message-ID: <01BBE6B5.432FDD60@muenzlerk.uthscsa.edu>

On Tuesday, December 10, 1996 3:39 PM, Mike Boice[SMTP:kd0fx@worldnet.att.net] wrote:

>Maybe this is a dumb question for a band that's been around for over 15
>years, but is voice transmission allowed by US amateurs on WARC bands?
>Specifically 17 meters? I had always thought that all the WARC bands were
>for CW only, but I continuously hear voice QSO's on my Sierra on 17 meters.
>I never really thought much about it, thinking they were non-US hams, or
>maybe not even hams. They're always in sideband, so I can't listen in on
>the Sierra. Well today I finally got off my doofus and turned on the Sony
>gc receiver and took a listen - the loudest signal was a guy in Missouri
>running 1500 watts.

>

>So, is voice kosher on WARC bands (or at least some of them?) Not that I
>have any plans to run voice on them (or heck, even to run voice anywhere -
>cw rules!).

>

>73,

>mike KD0FX

>Richland WA

>

Yes Mike, voice is allowed on all but 30 meters.

On 17 meters voice is allowed from 18.110 to 18.168

and on 12 meters from 24.930 to 24.990.

Kevin, WB5RUE

From owner-qrp-1@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: "Chris Doherty, N3UVR" <doherty@scranton.com>

Subject: [6037] Re: W1AW code transmissions

Message-ID: <199612100009.TAA15233@ns1.scranton.com>

> Date: Mon, 9 Dec 1996 09:46:35 -0600

> Reply-to: aplitech@Spacestar.Net

> From: "Claton Cadmus" <aplitech@Spacestar.Net>

> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

> Subject: Re: W1AW code transmissions

> X-To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

> Has anybody asked the ARRL why they are reducing the code

> practice and bulletin service? I haven't actually seen an

> explanation here. Maybe I missed it. Maybe it's due to a lack of

> volunteers?

>

Yes, I have. From my reading of the bulletin, the change is being made to reallocate resources due to routine maintenance. I wrote HQ for a clarification and to ask if the change was permanent.

No harm in getting clarification. Much better than getting riled up prematurely.

-73- de N3UVR, Chris Doherty

QTH 715 Monroe Ave.

Scranton, PA 18510

QRP-L #382 FISTS #2347

<http://cafe.scranton.com/~doherty>

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: Bob Hightower <ki7mn@dancris.com>

Subject: [6090] Re: Xmas greetings

Message-ID: <199612101429.HAA03574@dancris.com>

At 02:56 PM 12/10/96 +0100, you wrote:

> Hi, fellows,

>

> Have a nice Xmas & a Happy New Year. Later on this reflector
> you will receive a message related to a card I have sent to all of you and
> that is in card service, where the address and number of the message can be
> readen to have access to it.

>

> In the case this does not work, the address is
> www.netcard.com.br and the number is 61055224

>

>

Both numbers work very well. Thank you very much, Roger..Happy Holidays to you and yours, as well.

73,

Bob KI7MN

NorCal #1221 ARCI #8918 Qrp-l #271 CQC #274 AK QRP #30 ARRL

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604)

Subject: [6053] Re: [5914] Barred from QRP-L?

Message-ID: <199612100212.SAA00600@netcom11.netcom.com>

I'd like to know more about this, also. Maybe it's my faulty memory, but I don't remember anything so reprehensible as to require banning from the list.

73, doug

Date: Sun, 08 Dec 96 16:21:00 PST

From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>

I just received an email from someone who claims to have been permanently barred from QRP-L. I'm interested in knowing how many people have been permanently barred and for what reasons. Is there a published set of guidelines? How would I know if I'm in danger of being barred? Any warning? Just curious.

(It would be ironic if asking questions about getting barred is enough to get one barred? :-) 73, Cecil, W6RCA, 00TC

From owner-qrp-l@Lehigh.EDU Tue Dec 10 18:01:05 1996

From: faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604)

Subject: [6076] Re: [5914] Barred from QRP-L?

Message-ID: <199612100433.UAA25549@netcom12.netcom.com>

I'm been sent some evidence that this was justifiable, and that it all happened while I was off the list and traveling during the summer.

73, doug